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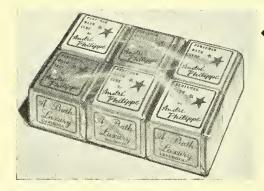
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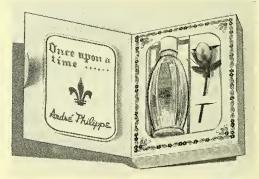
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 174

September 24, 1960

No. 4206

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Volume 174

SEPTEMBER 24, 1960

No. 4206

# Pure Food Centenary CONFERENCE AND EXHIBITION

HISTORICAL and administrative aspects of pure food legislation and problems arising from the widespread use of processed and manufactured foods were under review at a three-day Pure Food Centenary Conference held in London, September 21-23.

Paper-reading sessions were officially inaugurated by the Parliamentary Secretary to the Minister of Agriculture, Fisheries and Food (Earl Waldegrave, T.D.). They featured speakers from industry, the Association of Public Analysts, and organisations abroad. Delegates were invited to visit a factory or food research laboratory during the course of the conference. To give members of the public a practical idea of advances made in food analysis during the past hundred years, the conference organisers staged, at Charing Cross underground station, an exhibition depicting contrasts between the laboratory of 1860 and that of 1960. The exhibition remains open until October 8. Modern analytical techniques on display include paper chromatography; estimation of sulphur dioxide with the Monier-Williams apparatus; Karl-Fischer measurement of water-content, and fat determinations using the Soxhet extraction apparatus. Various foods on display are classified according to their primary nutritional content (protein, fat, carbohydrate, vitamin or mineral).

# A "Fine" Increased

MINISTER OVERRULES A COUNCIL

BRADFORD Executive Council, at a meeting on September 14, accepted "under protest" a decision of the Minister of Health to increase nearly tenfold a penalty imposed on a chemist. The chemist was reported to the Pharmaceutical Services Committee for allowing an unqualified assistant to dispense a test prescription without supervision, and the Committee recommended that the chemist should have £1 1s, withheld from his remuneration. The Council approved the recommendation but the Minister of Health directed that £10 should be withheld. At the Council's meeting at which the Minister's decision was announced, it was suggested that the Pharmaceutical Services Committee should resign. Alderman H. R. Walker said "This Committee is just going to be a waste of time if the Minister is going to fix a scale of fines. We thought our recommendation was fair." The Council eventually decided, however, to accept the decision "under protest."

# Canadian Tariffs

A.B.C.M. REPRESENTATION

APPEARING before the Tariff Board, Ottawa, on September 13, Mr. H. W. Vallender (representing the Association of British Chemical Manufacturers) opposed certain proposals presented by a committee representing the Canadian industry. The Board is in the initial stage of a wide-ranging review of the entire chemicals tariff. Mr. Vallender attacked the Canadian industry's suggested list of chemicals for which it proposes duty-free or low-duty tariff treatment as being of a class not made in Canada. For most other chemicals with some other exceptions, the Canadian industry committee proposes rates of 15 per cent. for British and Commonwealth imports and 20 per cent. for other imports. Mr. Vallender said the list of proposed exceptions omitted "a very lengthy list" of chemicals now

given low tariff treatment as being of a kind not made in Canada. Under the Canadian industry's proposals, he said, consumers "would be heavily penalised in having to pay duty on a wide range of chemicals not currently made in Canada." Mr. E. Hehner (counsel for the Canadian industry's committee) denied that their proposal would penalise customers. He said any chemical could be added to the list of exceptions for preferred tariff treatment if it were found desirable. He also challenged Mr. Vallender's claim that the committee's proposals would sharply reduce the preferential tariff treatment of British goods. In many cases, Mr. Vallender said, British products under the present Canadian tariff generally carried a duty 15 per cent. below imports from non-Commonwealth sources. Mr. Hehner said there were many goods on which the margin of British tariff preference was less than 15 per cent. There were at least sixty-five items for which there was no difference in tariff treatment between Commonwealth and other chemicals.

# Contraries in Packaging

PROBLEMS TO BE EXAMINED

A COMMITTEE is to be set up by the British Standards Institution to help tackle problems arising from the use of "pernicious contraries" in packaging materials. Its specific task centres



AFRICAN VISITORS AT HULL: In the United Kingdom to study all aspects of agriculture, Chief Zephaniah Malit, of Kenya, with five senior officials from Gambia, visited the Marfleet, nr. Hull, refinery of British Cod Liver Oils (Hull and Grimsby), Ltd., on September 15. Mr. Malit has been Chief of the 60,000 strong Karachuonyu Location in the South Nyanza district of Kenya since 1946. The company produces just under half the world's total supply of cod-liver oil.

on one field-to examine the prospects of a coding system for complex multiwall sacks, but the committee's terms of reference allow further study of the question as it affects other types of container. The investigation is the result of a meeting sponsored by the British Waste Paper Utilisation Council and attended by representatives of paper and multiwall sack-using industries. It reflects the concern of the paper industry, which relies on salvage for nearly 30 per cent. of its raw material, about the growing hazard of contraries in the waste-paper recovery system. Ironically, it is a hazard created by the rapid advance of paper technology, and occurs in all branches of paper and print. In packaging, the demand for more efficient means of protection has led to the widespread use of paper containers embodying special treatment and barrier materials; wet strength agents, metal foils, waxes, vegetable parchment, plastics and cellulose films, latex adhesives, etc. Those additives and laminates make waste paper difficult or impossible to repulp. That is when they become "pernicious"—and why the paper industry wants them to be accurately identified and segregated at an early stage in the process of recovery. The proposed scheme to print an identifying mark on multiwall sacks which incorporate contraries is the first practical step. The scheme already has the moral support of many users of paper sacks, and now the B.S.I. committee has to evolve a standard code-mark that can be quickly recognised

and yet does not entail the use of an extra colour or clash with existing surface designs. It must also discuss the case for using two or more types of code-mark to identify contraries which make waste paper completely unusable from those that can be economically repulped under suitable conditions.

# **Plastic Containers**

FINDINGS OF A U.S. SURVEY

THAT containers of high-density polythene plastic are replacing existing materials in many sections of the drug and cosmetics industry and that there is room for still further expansion by the plastics industry are the findings of a marketing survey into the future of blow-moulded high-density polythene plastic containers prepared by the Phillips Chemical Co., Bartlesville, Oklahoma, U.S.A. It is estimated that 25 per cent. of the toiletries and cosmetics products now sold in glass and 15 per cent. of the medicinal items that are packaged in glass, are logical customers for high-density polythene containers. By 1963, the marketing survey predicts, about 7 million lb. of the high-density plastic will be blown into containers, replacing glass containers for toiletries, cosmetics, medicines and foods. Some glass containers in those fields have already been replaced by packages of conventional polythene. But conventional plastic bottles for those fields require a lining or coating, which increases the cost of the container and narrows the breadth of the

market. The high-density resin will, in many circumstances, eliminate the need for those costly linings.

# Retail Sales

BOARD OF TRADE FIGURES

RECENTLY issued Board of Trade statistics show that sales of chemists' goods by independent retailers in June were. 7-4 per cent, higher than in May and 7 per cent, higher than in June 1959. In July, their sales were 8-62 per cent, higher than in June, and 1 per cent, higher than in July 1959. Multiple retailers' sales were 5-6 per cent, higher in June than in May and 10 per cent. higher than in June 1959. In July, their sales were 10-6 per cent, higher than in June and 11 per cent, higher than in June and 11 per cent, higher than in June 1959. Sales by Co-operative societies were just under 1 per cent, more in June than in May, and 8 per cent, higher than in June 1959. In July their sales were 3-5 per cent, more than in June and 5 per cent, more than in July 1959.

# **Bradfordian Reunion**

A "GET-TOGETHER" IN LONDON

A REUNION of former pharmacy students of Bradford Technical College is being held in the Pharmaceutical Society's hall, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. on October 14. Mr. F. N. Appleyard, who retired in 1959 after thirty years as head of the pharmacy department, is attending. A buffet supper is being arranged. A charge of 17s, 6d, is being made and remittances should be sent to Mr. J. E. Yarborough, c/o CIBA Laboratories, Ltd., Horsham, Sussex.

# July Drug Tariff

AN ERROR CORRECTED

THE Ministry of Health draws attention to an error in the Note on Charges for Drugs and Appliances (p. 127) of the Drug Tariff (July 1960 edition). The charge payable for "Each other appliance or two or more such appliances of the same type" should read as "1s.", not "1s. each." The error is being corrected in the (October) Quarterly Amendment to the Tariff.

# Royal Society

SOPHIE FRICKE FELLOWSHIP

DR. G. Jones (Rowett Research Institute, Bucksburn, Aberdeen) has been appointed by the Royal Society to hold the Sophie Fricke Royal Society research fellowship in the Rockefeller Institute, U.S.A., for the academic year 1960-61. Dr. Jones is to work on the fractionation and characterisation of leaf proteins.

# Surgical Dressings

PRICES INCREASED

CONTINUED advances in costs of raw materials and wage increases within the industry have necessitated advances in the prices of cotton wool, lints, bandages and other surgical dressings. Full details will be given in THE CHEMIST AND DRUGGIST Dispensing Price List at a later date.

# COST OF MEDICINES IN IRELAND

# Another attack—and a reply by the Irish Drug Association

STATING that the cost of medicines in the Republic of Ireland was "fabulous," Alderman R. Jones, at a recent meeting of Waterford Corporation, urged that support should be given to the demands that had gone to the Government to probe the cost of drugs in the Republic as compared with

those in Northern Ireland.

In a letter to the Irish Sunday newspaper that published the original article which caused the controversy (see C. & D., September 17, p. 332), Mr. Brendan R. J. Smith (secretary, Irish Drug Association) said that, in view of the article and the correspondence evoked by it regarding drug prices, the committee of his Association considered that the following facts should be brought to the attention of the public:-Medicines were supplied free of charge under the various Health Acts to people in the lower income group. Drugs and chemicals were available to persons not entitled to free supplies at retail prices similar to those charged in Northern Ireland and England. For the retail prices relating to such items the members of the Association were supplied with a price list that was the same in retail prices and itemisation as that supplied to retail pharmaceutical chemists in England. The retail prices of proprietary medi-cines were determined by the manufacturers.

The Association also issued to members the following statement: "The committee [of the I.D.A.] discussed the

recent public Press articles in connection with the question of drug prices. These articles have been closely These articles have been closely watched by the committee who now wish to convey their appreciation to members for 100 per cent. strictly adhering to the policy of the Association in not entering into Press controversies on the question of chemists' prices. It is felt that the Fair Trade Commission's report dealt adequately with all the issues involved. In that report, it may be recalled that the Commission, in their recommendations, referred to the distinctive features of pharmacy; pointed out that skill and knowledge of a professional standard are statutorily required of persons keeping open shop for compounding prescriptions; that chemists provide a service which is vital from the standpoint of public health, and in view of all these or other points, held that the net profits earned by chemists on the average are moderate. It will also be recalled that the Government, having fully con-sidered the Fair Trade Commission's report, endorsed their recommendations and confirmed the policy pursued by Irish retail pharmacists by not making any order to change the existing position. It is likely that the Government may make some statement in answer to possible questions in the Dail, and until such a position arises, or further adverse criticisms develop, Press controversies are not considered by the committee to be in the best interests of members."

# OVERSEAS NEWS

UNITED STATES

Avoiding Drug-contaminated Milk The Food and Drug Administration in the United States has issued a new, broader set of labelling requirements, covering all dosage forms packaged for veterinary use. An earlier proposal was aimed only at certifiable antibiotics for intramammary infusion. The new order applies to both certifiable and non-certifiable antibiotics as well as to other dosage forms. Not included, however, are products for infusion into the udder. The new rules, which become effective November 29, require drug manufacturers to use one of the following two statements on certain pharmaceutical preparations sold for use in animals:

Warning: Not for use in animals producing milk, since this use will result in contamination of the milk.

Warning: Milk taken from treated animals within.....hours after the latest treatment must not be used for food.

The blank is to be filled in with a figure (not greater than ninety-six). The actual number will be determined by the F.D.A. Commissioner on the basis of data supplied to him by the pharmaceutical maker.

# NEWS IN BRIEF

AUTHORITY to possess, supply and prescribe Dangerous Drugs has been restored to James Paterson, M.B., Ch.B., Lower House, Lepton, Huddersfield.

A STUDY group on arthropod-borne virus diseases was held at Geneva, September 5-10, under the auspices of the World Health Organisation.

SHEFFIELD Regional Hospital Board are extending the pharmaceutical department at their Rotherham hospital.

Dr. D. Matheson has been appointed senior chemical inspector of factories in succession to Mr. S. H. Wilkes who retired recently. Dr. Matheson was formerly deputy to Mr. Wilkes.

Bradford Institute of Technology is to establish a department of chemical engineering to replace the existing chemical engineering section of the department of chemical technology. Principal lecturer is to be Mr. C. W. Page.

VETERINARY medicinal products were on view at a trade exhibition held at Glasgow University, August 29 to September 3. Organised in conjunction with the annual congress of the British Veterinary Association, the exhibition was supported by a number of pharmaceutical manufacturers. Among the products displayed were anthelmintics, hormones, antibiotics, vaccines, antiseptics and anæsthetics.

### SPORT

Golf.—Manchester Pharmaceutical Golfing Society, Captain's meeting, at Denton golf club, on September 14, 1, T. Williams, jun., 73; 2, Dr. Doohan, 74.

London Chemists' Golfing Society, final meeting of the season, at Northwood golf club, on September 15. President's Prize and Putter, H. A. Coward (12), 75; McClure, Young Trophy and Prize, W. S. Hutcheon (12), 75; Harker Stagg Prize, D. Carter, 3 down.

# TOPICAL REFLECTIONS

By Xrayser

Professional responsibility

If we are to advance professionally—and that must be the wish of the majority—it is both desirable and necessary that we turn a merciless searchlight on our actions and on our moral approach to our responsibilities. Those who read the address of Mr. C. G. Drummond to the second professional session at Newcastle (p. 344 et seq.) may feel that the profession as a whole was being subjected to censure, though the speaker was careful to differentiate between those who showed a true discrimination and those who did not. It seems, as you point out in your editorial comment, that the course charted in the paper could, for a period at least, result in a deliberate financial self-denial in order to bring the pharmaceutical body nearer to a professional ideal, and that the initial reward might be more spiritual than material. A strong sense of corporate loyalty would be required for the acceptance of such a period of travail, but it is only by going through the fire that some of the less attractive aspects of our present way of life could be exorcised. I should not like to think that that would be impossible, but its attainment would require a number of carefully calculated actions based on a much wider ethical code than that at present existing, with stronger powers of suasion. Such a situation must not be regarded as too Utopian. It is not long, in terms of years, since pharmacy took unto itself an ethical code, and that code has been a progressive moral charter in its own short life. If the foundations, so quietly and efficiently laid about twenty years ago, and built upon by the most serious and progressive minds in pharmacy, can be extended—and, as the speaker suggested, be made part and parcel of registration—the goal would begin to appear in sight, if not within actual grasp. The weight of an enlightened professional outlook, which may confidently be expected from a higher general and professional education, should also speed the time when the outlook expressed will find favour not only in the profession but in the Government and in the country as a whole.

# The pharmacologist's view

In putting forward the view of the pharmacologist at the same meeting, Professor A. D. Macdonald dealt largely with the relationship of doctor and pharmacist in a loosely integrated health service. The opportunities for close professional co-operation are perhaps fewer in retail than in hospital pharmacy, yet they do occur, with professional satisfaction to both. That relationship could become still closer if matters of common interest were to be discussed at branch level in joint meetings of the professions concerned. Such occasions have to be worked for, but the effort is worth all the trouble involved. Some of the remarks of the speaker could be applied to the problems mentioned in the preceding paragraph. For example, "A team needs a team spirit, and is liable to be let down by any weak member—by any refusal to comply with the decisions of the team—by any selfish or non-participation—even by an excess of individuality." Those precepts referred to the team work of patient, doctor, pharmacist, nurse, etc. They apply equally to the relationship of pharmacist with pharmacist, and that must come first if pharmacy is to reach its true level. The pharmacist is, first and foremost, a pharmacist, regardless of whether he is self-employed or serving masters. He was never in a stronger position to assert his professional rights.

# Newsagent and confectioner

I recently visited the shopping centre of a council housing estate. It was tenanted by a group of shopkeepers who were chosen to provide a comprehensive service without trespassing on each other's preserves. Yet the newsagent and confectioner displayed Veno, Califig, Germolene, Eno, Phensic, Setlers, Beecham's pills, Beecham's powders, Alka Seltzer, Vick, Milk of Magnesia and Andrews liver salt, besides such "pure confectionery" lines as Loxene, Amami, J. & J. baby powder, Clinic shampoo, S.R. tooth-paste and Brylcreem. There was also one bottle of ink, but I decline to name the brand. That would be advertising.

# Legislation Concerning Medicines

# PHARMACEUTICAL SOCIETY'S EVIDENCE TO WORKING PARTY

THE Pharmaceutical Society of Great Britain has submitted the following memorandum of evidence to the Interdepartmental Working Party on Legislation:-

1. The fact that the legislation relating to medicines is to be found in a variety of Acts of Parliament is partly the result of developments which could not be foreseen, and partly the consequence of a piecemeal approach to the question of control. This latter feature of the legislation is its main weakness and derives from the concept that, in general, medicines should be free from control and only particular medicines or classes of medicines require legal restrictions.

The Society believes that this view is the reverse of the one which should be the basis of legislation affecting medicines. Instead of medicines being free from control as a general principle to which exceptions may be made, they should be subject to control as a general principle to which exceptions may be made. It is contended that substances used for medicinal purposes are by their nature sub-stances which are liable to be harmful in one way or another if abused, and legislation should provide for control to be exercised over medicines as a class. In that case the power will exist to regulate any new situation as it arises or as it is foreseen in regard to any medicine or class of medicines. In other words legislation somewhat on the lines of that which deals with poisons should be established to deal with medicines.

A corollary of regarding medicines in this way is that in general their preparation and distribution should be in the hands of qualified persons with exceptions only where, for one reason or another, the balance of public advantage lies in favour of the relaxation of this requirement.

Subject to the maintenance of the self-governing authority of the medical, dental, veterinary and pharma-ceutical professions, legislation should provide for the control of medicines being separated from the control of other substances and vested in the Minister of Health, the Secretary of State for Scotland and the Minister of Agriculture, Fisheries and Food, who should have power to make rules dealing inter alia with the introduction, composition, production, identification, purity, claims, advertising and distribution of substances and preparations used for the prevention or treatment of human or animal ailments.

5. There should be established a Medicinal Substances Control Commission which would advise the Ministers on these matters and carry out any other functions relating to medicines which

the Ministers may require.

The personnel of the Commission should be of a representative character and reflect the various interests involved in the preparation, distribution and use of medicines.

7. Adequate technical staff and other facilities to assist the Commission and the Ministers in the discharge of their duties should be provided.

In addition to giving effect to the above principles and proposals, new legislation should incorporate the provisions of the following statutes with the additions and amendments set out below:

(a) The Venereal Diseases Act, 1917;(b) The Pharmacy and Poisons Act, 1933 (so far as it relates to drugs and poisons which are drugs);

(c) The Cancer Act, 1939;

(d) The Pharmacy and Medicines Act, 1941; The Radioactive Substances Act, 1948 (e) (Section 3):

(f) The Dangerous Drugs Act, 1951; (g) The Food and Drugs Act, 1955 (so far as it relates to drugs);
(h) The Food and Drugs (Scotland) Act,

1956 (so far as it relates to drugs); (i) The Therapeutic Substances Act, 1956;(i) The Medical Act, 1956 (Section 47).

The provisions of the National Health Service Act, 1946, and the National Health Service (Scotland) Act, 1947, relating to medicines, form an integral part of health service

legislation and should remain in that context.

The further suggested modifications of the law fall into two classes, the one consisting of what are in effect new provisions such as those already mentioned and the other of alterations of existing provisions; there is no clear dividing line between the two.

(i) Those in the first class are:-(a) substances newly introduced as medicines should be supplied only on prescription until such time as there is sufficient evidence available to justify

release from such control;

(b) the retail side of medicines other than in pharmacies should be permitted only in businesses which satisfy conditions substantially the same as those set out in Section I (1) (a) . . . (g) of the Pharmacy and Medicines Act, 1941;

(c) owners of businesses concerned with the manufacture and wholesaling of medicines should be required to comply in respect of qualified personnel with the same conditions as the owners of businesses concerned with the retail sale of poisons in Part 1 of the Poisons List,

(d) the preparations and supply of medicines in and from hospitals should be under the control of pharmacists.

(ii) Those in the second class are:-Pharmacy and Poisons Act, 1933 Section 9. In its Articles of Association a body corporate desiring to carry on business under the Pharmacy Acts should provide for (1) the appointment of a superintendent and his appointment as a director and (2) the observance of the legal and professional obligations of pharmacy.

Section 9 (1). Provision should be made for the Society to be notified immediately a person who has been the superintendent of a body corporate has ceased to act in that capacity.

Section 9 (2). The use of the term

"chemist" or other restricted term in the name of a body corporate should be prohibited.

Section 9 (3). A person who is a director of a disqualified body corporate should not be permitted to act as a director of any other body corporate carrying on business under the Pharmacy Acts, and a body corporate whose premises have been disqualified should not be permitted to register other premises which, by virtue of their geographical position, could be regarded as replacing those disqualified. Section 12. The limit on the amount of the registration fee should be removed and power given to the Council of the Society to fix the fee subject to the approval of the Privy Council, Power should be given to the Society to refuse registration of premises or to discontinue registration of premises if in the opinion of the Council there are reasonable grounds for taking this course.

Section 18. It should be an offence to sell a poison for resale by retail unless the purchaser is entitled by law

to sell it by retail.

Section 18 (2) (a) (ii) should be replaced by the following wording: "a person to whom the seller or some registered pharmacist in the employment of the seller at the premises where the sale is effected is reasonably satisfied that the poison may properly be sold.'

Section 20. It should be an offence to sell a poison to a person carrying on a retail business unless the purchaser is entitled by law to sell it by retail. Section 25. Inspectors should have the

same power to enter any premises where poisons are made or sold as they have to enter premises which are on the register of premises.

The Pharmacy and Medicines Act, 1941 Section 8. This should apply to treatments for the diseases mentioned as well as to articles used for the purpose of treating such diseases.

Section 11 (1) (a). The words "or wholesale" should be inserted after the word "retail."

Section 11 (2) (a) (ii). The words "in the edition of the British Pharmacopœia or the British Pharmaceutical Codex which was published before the date on which the article was sold or supplied the description set out at the head of that monograph "should be replaced by "in any edition of the British Pharmacopæia or the British Pharmaceutical Codex the description set out at the head of that monograph together with the name of the book or its accepted abbreviation and the date of the edition in which the monograph is contained."

Section 15. Section 12 should be added to the sections which the Society has the duty to enforce.

Pharmacy Act, 1954

Section 19. Unqualified persons should not be permitted to use descriptions such as "drug store," "medical hall" and "chemists' sundries" in connection with the retail sale of goods.

# Central Sterile Departments

# PHARMACISTS IN THE RÔLE OF PRODUCTION MANAGERS

DISCUSSIONS on "Central Sterile Supply Departments and the Hospital Pharmacist" took place among pharmacists of the South-west Metropolitan Region at a meeting in London in June. Before the meeting was a statement prepared by the South-west Metropolitan Hospital Pharmacists Committee in which it was pointed out that the high incidence of surgical cases infected during their stay in hospital had led to a number of investigations into probable causes, including the apparatus and routine used to produce sterile dressings and instruments. In 1958 a working party organised by the Medical Research Council had reported on investigations into the process of sterilisation by steam under increased pressure. Another report produced by the Nuffield Provincial Hospitals Trust on sterilising practice in six hospitals had commented on a lack of understanding of the technical requirements involved and the lack of any one person charged with the responsibility for the production of sterile materials.

### Origin of the Idea

From those investigations and reports the idea had grown up that each Group of hospitals should have a separate department in which the production of all sterile items (dressings, syringes, instruments and fluids) should take place. In neither of the reports mentioned, nor in Ministry of Health Circular H.M.(59)33 which followed, was there any recognition of the contribution which the pharmacist could make in that field; there was not even a reference to his work in producing sterile injectable solutions. Yet at the 1959 Brighton symposium on the operation of sterilising autoclaves (C. & D., May 16, 1959, p. 527), Dr. J. H. Bowie, senior lecturer in bacteriology at the University of Edinburgh, had said:

For two main reasons I suggest that pharmacists-particularly if I may say so, those with a university degree—are more fitted than any other profession in hospital to take over the immediate development and management of sterile supply in hospital. First, the nature of work and its organisation is a natural evolution of their present responsibilities in the hospital world. . . Secondly, many pharmacists and their teachers have already gained extensive knowledge and practical experience in running large-scale production departments for sterile supplies both in pharmaceutical firms and in hospitals.

The Committee recognised that in some circumstances the pharmacist might with some justification feel unable to accept additional responsibilities. Such cases merely emphasised the under-staffed situation in many departments, which precluded the pharmacist from making his full contribution to the welfare of the patient. They did not invalidate the argument that, by training and experience, he was normally the most suitable person to act as the co-ordinator of sterilising ser-

vices in the hospital or hospital Group, assuming responsibility for production techniques, safety precautions, methods of storage and distribution, and for organising in partnership with the bacteriologist (who would carry out the laboratory work) all necessary control tests. The Committee felt that the claim for recognition of the pharmacist as an expert in the sterilisation of all hospital materials was substantiated for the following reasons:—

1. At the time of qualification the pharmacist is the only member of the hospital staff who has received systematic instruction in the principles and practice of methods of sterilisation.

2. Pharmacists have long been responsible for the production of sterile injectable fluids.

3. The pharmacist's knowledge of their physical properties enables him to select the most suitable sterilisation procedures for given materials.

4. The pharmacist has sufficient knowledge of bacteriology to enable him to devise procedures of sterility testing and to evaluate their results. (From a practical point of view it is desirable that the functions of "production" and "control" should be separate. Thus the pharmacist should be responsible for production and general co-ordination and the bacteriologist for laboratory control.)

5. The pharmacist is familiar with the requirements of safe systems of working and of safety precautions needed for the operation of pressure equipment.

6. The pharmacist has not only already in being a system of production of sterilised materials but also systems of acquisition, storage and distribution of an exceedingly wide range of materials—he possesses, in fact, considerable "know-how" in all the aspects of sterile supply.

Mr. E. A. Cross (chairman of the Committee) presided over a gathering of nearly fifty pharmacists, and Dr.

HAROLD DAVIS, C.B.E. (chief pharmacist, Ministry of Health) who opened the discussion, revealed that the subject of the discussion had been put on the agenda of the Standing Pharmaceutical Advisory Committee. DR. G. C. TAYLOR (deputy senior medical officer, Ministry of Health) thought that the bias should be towards the pathologist in the sterilisation of syringes, instruments and surgical dressings. MR. J. W. HADGRAFT (chief pharmacist, Royal Free Hospital) described central sterile supply arrangements under pharmaceutical management at his hospital.

MR. H. S. GRAINGER (chief pharmacist, Westminster Hospital) reminded the meeting that the sterilisation of surgical dressings about which the Nuffield and other reports had indicated that those responsible had not been doing their job properly, had not generally been the province of the pharmacist. Nevertheless the remedy advocated was that those people should continue to have the responsibility and even be given the same responsibility in respect of all other items sterilised in hospital. He considered that the pharmacist should be in the sterilisation "team" in any hospital. MR. G. RAINE (chief pharmacist, St. George's Hospital) said that there was no need to whittle down the pharmacist's responsibilities in connection with central sterile supply arrangements because he might be short of staff.

It was generally agreed by the speakers who followed that central sterile supply departments called for team work in which the pharmacist had an important part to play, especially as co-ordinator of the various activities involved. His rôle should be roughly comparable with that of production manager, the pathologist's to that of the analytical control in a factory. It was up to the pharmacist to accept that responsibility and not to allow conditions such as shortage of staff to deter him.

# LECTURES ON COLOUR PHOTOGRAPHY

# Kodak, Ltd., plan to interest the "unconverted"

ONE of the ways in which Kodak, Ltd., are planning to interest the general public in colour photography is by means of large public shows, seventy-four of which have so far been arranged for the coming season. In each town a large hall has been engaged and the numbers invited range between 800 and 2,500, according to the centre. A civic reception is usually staged, the mayor being present at the lecture. That normally ensures good publicity for photography in the local Press, All the pictures shown—cine and 35-mm. transparencies—could have been taken with-out complicated and expensive equipment and the talk by the lecturer (Mr. Bill Risdon) contains much to interest both the novice and colour enthusiast. The company, however, hope that the lectures will stimulate the interest of non-photographers by showing them what can be done with inexpensive modern cameras and films. The company are also intensifying their school-lecture programme, and in that service the lecturer will introduce the subject (rather than give instruction in photography), through pictures taken by himself on various expeditions. At the same time the other lecture services offered by the company are being maintained. They include the personal lectures given by members of Kodak's resident panel of lecturers and by sponsored lecturers who are well known personalities in the photographic world.

The postal lecture service includes colour slide lectures and film-strip lectures. The film strip may be retained but the slides must be returned. During the season commentaries on (returnable) tape (to replace scripts) are being

introduced.

# INTERNATIONAL PHARMACEUTICAL FEDERATION

# A task for the "retail" section

TO CHANGE ITS ENGLISH-LANGUAGE NAME

THE International Pharmaceutical Federation at its general assembly in Copenhagen, Denmark, on September 2, approved a number of changes recommended by its sections and commissions. The Commission of Retail Pharmacists, on a suggestion made by Mr. Michael Costello, Ireland, has undertaken to try and find a title that will remove the commercial connotation given by the word "retail." It is hoped that a descriptive title will be found that the transfer of the second tran found that can be adopted in Englishspeaking countries for general use. Mr. Costello pointed out that, when professional matters are under discussion, the description "retail" in the present title creates misunderstandings.

The constitution of the scientific sec-The constitution of the scientific section is being changed to admit pharmacists "interested" in scientific aspects (without holding positions in teaching or research); and of the medical plants section (to limit the number of non-pharmacists admitted). The basis of award of the Höst-Madsen medal is being modified, and a proposal by the scientific section that two new awards scientific section that two new awards of medals be established—(a) for "exceptional professional merit"; and (b) to a young research worker as a spur to further achievement, are being studied by the Bureau of the Federation. The section's proposal that a commission should be set up to consider prelimi-nary suggestions for the control and standardisation of enzymes has been adopted.

### For Comments Only

The recommendations as to trade marks and free names put forward by the section of industrial pharmacists (C. & D., September 10, p. 301) are being published in the Journal Mondiale de Pharmacie, though it is being made clear that they do not carry the stamp of approval of the general assembly but are there to attract the comments of other sections and members.

The scientific section has been subdivided into five subsections, each of which will send a representative to appropriate international scientific con-

appropriate international scientific conferences in other disciplines.

New heads of sections, etc., are:—
SCIENTIFIC: Professor Guillot, France;
INDUSTRIAL PHARMACISTS': Mr. C. C.
Stevens, Great Britain. MR. W. K.
FITCH, Great Britain, has taken over from Mr. Don Francke, U.S.A., the chairmanship of the commission on

abstracting of pharmaceutical publications.

Subjects of forthcoming sectional meetings are:—SCIENTIFIC (Pisa 1961): meetings are:—SCIENTIFIC (Plsa 1961):
"Emulsions and Suspensions in Pharmacy"; INDUSTRIAL (Vienna 1962):
"Production Problems"; MILITARY (Vienna 1962): "Precautions to be taken by Manufacturers in the Event of War"; "Treatment of Cases of Nerve Gas Poisoning"; continuation of study of blood-plasma substitutes.

# GENERAL ASSEMBLY Pharmacy as a worthy profession

TO a general assembly of the Federation on September 1, PROFESSOR SCHOU, Copenhagen, put forward three essentials for establishing the pharmacist as a worthy professional man: (1) He must know what he was dealing with; (2) he must produce at least some preparation within the pharmacy; (3) he must keep abreast of every advance in therapeutic knowledge.

The first implied tests for identity and purity of materials, and Professor Schou described how, after the Danish Pharmacopæia, 1948, had divided responsibility for manufactured products equally between manufacturer and pharmacist, a series of quick tests had been elaborated in his country. Cards giving macro- and microscopical characters, quick chemical tests and a melting-point determination had to date been prepared for 650 items. They had been sent to 350 pharmacists and all the tests could be carried out with apparatus costing less than £20. In the past half-year it had become com-pulsory for Danish pharmacists to record the results of the tests and to give a batch number to the material tested. The record must bear the initials of the person making the product and of the pharmacist who checked the work. The production of medicinal products, or at least of a product, within the pharmacy he described as "the first hard step on a stony way to more professional satisfaction." A pharmaceutical organisation could set up a model pharmacy at which pharmaceutical operations could be seen to be done, and the model pharmacy could become the "pet" of all the pharmacists in an area.

To keep the pharmacist informed there was needed a universal system of information. It could be built up by an organisation such as F.I.P. and every manufacturer should take responsibility for sending to the compilers an adequate number of cards bearing

MR. DON FRANCKE, Ann Arbor, U.S.A., said that a survey of hospital pharmacists in the United States had pharmacists in the United States had led to a recommendation much on the lines of Professor Schou's second point. It was considered that production within the pharmacy increased the competence of the pharmacist, improved his relationship with the other professions, and was the best form of public relations. public relations.

A Swedish system under which eighteen laboratories manufacture items for pharmacies under the pharmacists' own aegis was described by Mr. A. WILUND.



ACADEMICIAN AND CHAIRMAN: Professor Nils Bohr (president of the Royal Danish Academy of Sciences) with Sir Hugh Linstead (chairman of the Federation).



GOLD MEDALLISTS: Professor J. Büchi, Zurich, Switzerland, and Professor Schou receive their Höst-Madsen gold medals from the president of the International Pharmaceutical Federation (Sir Hugh Linstead).

# MEETING IN SWEDEN

# Specialities and their impact on dispensing

FOR the August 31 sessions Congress members were transported across the Sound to Sweden, where their hosts were the Swedish Pharmaceutical Society and they were welcomed by the Society's president, Mr. A. O. Wilund.

At a general assembly of the Federation in the morning Mr. T. HESELTINE presented a report by the Commission of Retail Pharmacists on the effects upon retail practice of the increasing use of medicinal specialities.

Mr. Heseltine said the Commission was not presenting any conclusions or a proposition. Its purpose was to initiate discussion. Salient points in the report were that researches had to be paid for and some protection given to prime discoverers against others who tried to cash in on their discoveries. The advantages of specialities were that they presented consistent products that could be fully controlled. Their disadvantages were that the initial cost of putting them on the market made them expensive; that they were not tailored to the individual patient; and that many of them were quickly copied. Substitution was illegal, so many different brands had to be stocked by the pharmacist. That taxed both the memory and the purse of the pharmacist and taxed the memory of the physician. The pharmacist must master the speciality or it would master him. It was essential for him to know and understand the information provided by the manufacturer; he must know the forms and sizes in which the medicament was available; and he must know the side effects of the product, so that the doctor could turn to him with confidence. To enable him to fulfil those obligations the responsibility lay on national pharmaceutical societies to teach the proper subjects and to provide a continuous list of new products. The question arose whether and how the doctor's dependence on specialities could be limited. He was of the opinion that many diseases could be treated with simpler drugs. In Great Britain with its comprehensive health service about 50 per cent. of prescriptions were still for non-proprietaries, whereas specialities accounted for 80 per cent. of French dispensing and about 90 per cent. of American. He thought the reason for that was that a copy of the British National Formulary, compiled jointly by the Pharmaceutical Society and British Medical Association, was sent free to every prescriber.

# Challenge and Counter-challenge

When the report was thrown open to discussion it was immediately challenged by MR. M. GAUDIN, France (chairman of the section of industrial pharmacists). While research was becoming ever more indispensable, calling for greater co-operation between industry and the universities, he did not agree that the plethora of products on the market caused wastage. The report had kept away from the subject of prices, but examples such as penicillin could be quoted to prove that high initial costs came down as manufacture increased and improved. He agreed that

it was up to the industry to keep pharmacists as well as doctors informed, for it was up to pharmacists to inform the physicians. The point of remodel-ling pharmaceutical education was being taken up, but undoubtedly most syllabuses were overloaded. The basic diploma must become subject to a certain degree of specialisation according to the branch of pharmacy that was being entered. The problem of control of specialities would have to be studied within the Federation but the problem was extremely complex. The objection to formularies such as the B.N.F. was that they "followed from afar" the development of new products, and it was difficult to see how that shortcoming could operate in the interests of the patient. Manufactured specialities, too, were capable of being controlled. Who would control medicines produced in the pharmacy? How did the authors of the report propose to popularise among prescribers the nonspecialities?

### Wanted a Good Patents System

MR. C. C. STEVENS, Great Britain, joined issue even more strongly with parts of the report. He claimed that the prices of many proprietaries were in many cases less than those of the unbranded products. The production of medicines was unquestionably more economical in factories than in pharmacies. What put up the price was the cost of research. Doctors had a moral duty to provide the best medicine possible, and if they were unable to judge which of several was the best, then the fault lay with the medical schools. There was no easy answer to the problem of proliferation, but certainly most pharmacists calling for limitations were going about the matter the wrong way. The only worth-while specialities were those that made new compounds available and to protect those a good patents system was called for. "Propatents would end duplication.

A counter-challenge to Mr. Stevens's claims was strongly put by Mr. H. S. Grainger. He first accepted the place of specialities in pharmacy. Not only were many of the old forms of pharmaceutical products obsolete, but many of the substances themselves. Specialities were more precise weapons of healing and they were based on scientific progress. Pharmacists everywhere must accept them. But the statements that research accounted for high prices and that the remedy for wasteful expendi-ture lay in the education of doctors could not be accepted. The reports of the Kefauver hearings in America must not be overlooked. If Mr. Stevens's arguments were valid there would not be so many products launched that failed to sustain their reputation. Investors put their money in what promised a good return. What caused concern among hospital pharmacists—and they, like those in retail. were affected by the current trend—were the innumerable imitations of new products, which were often an insult to the pharmacist's intelligence. Was good trade-mark legislation really the answer? It was claimed that the trade mark was in part a guarantee of quality, but the real standards must be those of the pharmacopæia.

In the view of a Belgian civil service pharmacist, Mr. P. Falize, Brussels, the present anxieties of pharmacists were based on fear. The two problems arising from the advent of specialities had to do with their "monopoly dispensing and with finance. But their monopoly was not accorded to pharmacists as a privilege—only for providing an essential service. In his view there was no question but that dispensing would always remain in the hands of pharmacists and their fears on that score were groundless. The influx of specialities might bring about a deterioration of the professional appearance of pharmacies, but it was up to pharmacists to see that it did not. The financial problem arose because some manufacturers considered the pharmacist received "too large a cut." That was not true, but the views of manufacturer and pharmacist could be reconciled if part of the present price could be charged to the patient as a dispensing fee.

In America, said Mr. Ronald V. Robertson, Spokane, U.S.A., the Kefauver hearings into costs of proprietary specialities had come about because so many of those products introduced had failed to survive for even so long as two years. The blatant newspaper headlines on the Kefauver hearings had been embarrassing to retailers as well as manufacturers. He urged both sides to find areas of agreement, not to labour disagreements. The principle should be self-discipline to serve the public better.

### Linking Pharmacists with Production

PROFESSOR J. BUCHI, Zürich, Switzerland, urged that some way should be found to link the pharmacist with the production stage of medical specialities. That could be by individual dispensing of proprietary products, or pharmacists could try and work with pharmacologists to produce formularies incorporating specialities. Industry was taking something away from pharmacists but could make some return by providing the active substances for such formulations. That arrangement would naturally only work if the resulting preparations were as good as manufactured products. and only if the industry had confidence in pharmacists. The necessary skill could be ensured and the necessary confidence engendered by co-operation between the manufacturers and the schools of pharmacy. Also a "home" speciality should be within the scope of retail pharmacists. Since the pharmacist must provide information for both the prescriber and the patient, anatomy and physiology should be added to the curriculum.

Whatever difficulties the pharmacists of the West encountered over specialities, they were multiplied in India, said MR. N. H. SHARMA, Bombay, because all countries were exporting their specialities to that country.

MR. PIERRE HIPPERT, Luxembourg, called for action by the commission to counter the pharmacist's loss of status, prestige and contact with the public.

# BRITISH PHARMACEUTICAL CONFERENCE

# Closing Session and Reports

DURING the closing session of the 1960 conference meeting held in the City Hall, Newcastle-on-Tyne, on September 9, it was made known that the next British Pharmaceutical Conference is to be held in Portsmouth and Southsea on September 18-22, 1961. The session began with a vote of thanks to the local committee proposed by MR. JAMES COLEMAN (secretary, Pharmaceutical Society of Ireland) for all the work they had accomplished. At Bourne-mouth in 1959, said Mr. Coleman, he had heard it stated that Newcastle was inaccessible and without amenities, but he was carrying away many happy memories of its parks and beauty spots. Nothing but praise could be forthcoming for the way everything had been organised. Many aspects of the Conference had reflected the detailed planning that had been carried out by the local committee. If he were asked to describe the Newcastle meeting in one word he would choose "tranquility." That word reflected an efficiently run conference. MR, J, B, GROSSETT (a member of Council of the Pharmaceutical Society) seconded the proposal. He also referred to the efficient arrangements and said that they were not unexpected, since at Tyneside, "from the drawing to the template, from the keel to the launch, from fitting-out to the turbines," experience had been gained in detailed planning to ensure the smooth final arrangements by those who had done the work — their gain was the happiness they had given. The proposal was passed unanimously.

### " Overwhelmed "

MR. T. D. CLARKE (chairman of the committee), acknowledging the vote, said he was overwhelmed by the reception he had been given and the success of the Conference. The committee had hoped to sell 500 full books of tickets, but had in fact sold 600. He then referred to the individual members of the committee who had organised the Conference meeting. Thanks were also due, he said, to the chairman of the Conference and his lady and to the president and his wife.

In accordance with tradition, THE CHAIRMAN then presented the local branch of the Pharmaceutical Society

from the John Bell and Hills fund with a gavel as a memento of the Conference visit to Newcastle, Receiving the gift for the branch, MR. G. H. M. GRAHAM (chairman) said that it would be treasured as an emblem of friendship and of the happy times spent with the Conference during the week,

The TREASURER then introduced his report, on the invitation of the chairman. The accounts showed that the stock of replicas of the chairman's badge had been replenished by the purchase of six new badges.

Adoption of the report was formally seconded by the president and adopted by the Conference.

The auditors' report was formally presented and adopted.

### Conference Annual Report

DR. E. F. HERSANT was then asked to present the annual report. He stated that in addition to the invitations provisionally accepted in 1959, the executive had provisionally accepted an invitation to visit Edinburgh in 1964. Other branches of the Pharmaceutical Society had made preliminary inquiries regarding the possibility of entertaining the conference in future years. The Executive nominated the following officers and members of the Executive for 1960–61: Chairman: Dr. D. C. Garratt; vice-chairmen, Messrs. R. R. Bennett, H. Deane, H. Humphreys Jones, T. E. Wallis, H. Brindle, Norman Evers, A. D. Powell, H. Berry, H. B. Mackie, G. R. Boyes, H. Davis, J. P. Todd, K. Bullock, Frank Hartley, G. E. Foster, H. Treves Brown and W. H. Linnell; treasurer: Mr. H. G. Rolfe; general secretaries: Drs. E. F. Hersant and D. Train, Other members of Executive: Messrs. K. R. Capper, G. F. Somers, J. B. Stenlake, R. E. Stuckey, G. Sykes and W. T. Wing.

DR. J. M. Rowson proposed the adoption of the report and the election of officers for the year. Referring to the proposed chairman, he said that the fact that Dr. D. C. Garratt, a distinguished analyst, was recommended for the chairmanship indicated the importance of analysis to the Conference. Dr. Garratt's standards were high, but he was always kindly. In his public work he had given much time to the British

Pharmacopæia Commission and to the British Pharmaceutical Codex committees. MISS M. A. BURR seconded the proposal, which was accepted with acclamations.

DR. GARRATT thanked the Conference on behalf of the committee for accepting the report. He was conscious of the great honour that had been bestowed on him, and hoped that, with the help of his committee, he would be able to provide the Conference with a profitable and enjoyable meeting wherever they were invited.

MR. J. C. BLOOMFIELD then formally invited the Conference to meet in Portsmouth in 1961. He said the main excursion would be to the Isle of Wight, and the committee hoped to house members in hotels overlooking the promenade and the sea. MR. J. H. OAKLEY proposed and Mr. F. R. C. Bateson seconded the proposal, which was approved.

MR. R. L. STEPHENS then proposed a vote of thanks to the chairman, He spoke of the success and of the "disarming informality" with which he had carried out that important office and called upon MR. D. NEDELIKOVIC, Brussels, Belgium, to second the vote, Mr. Nedeljkovic spoke of his pleasure in receiving the hospitality of British pharmacists, and congratulated the chairman particularly on his opening speech on freedoms, He felt strongly, he said, that individual freedom was the most important. He referred to Dr. Capper's paper and promised, jokingly, that if British pharmacists adopted the metric system he would attempt to further changes of the rule of the road on the Continent "from right to left."

# " Unique " Publicity

Replying to the vote of thanks, THE CHAIRMAN in turn thanked all of those who had given their time to the Conference. They had made his task easy because he had "only to do as he had been told." In particular he thanked the local Conference Committee, The Conference had received some attention from the pharmaceutical and the lay Press. The publicity given in the lay Press was unique, and due in some measure to the work of the Press

FOR SERVICES RENDERED: At the hands of the Conference chairman (Professor W. H. Linnell), Mrs. and Mr. T. D. Clarke (chairman, Conference Local Committee) receive a silver cigarette box (left) and Mrs. and Mr. A. McGuckin (secretary) a silver fruit bowl (right) as a permanent token of recognition for their services to the Conference. The treasurer and Mrs. L. R. Renwick were presented with a silver salver.







Officer, The trustees of the Carfield Memorial, he said, were now in a position to help research workers in the purchase of books and/or apparatus; details would shortly be published. PROFESSOR LINNELL then formally terminated the closing business session of the ninety-seventh meeting of the British Pharmaceutical Conference, Newcastle-on-Tyne, 1960.



FROM INDIA: Messrs. N. R. Sharma and G. A. Vyas, who came from India to attend the Newcastle meeting of the British Pharmaceutical Conference.

### **Conference Week Savings**

"Our spray is best likened to a Scotch mist—very wetting, but the individual particles cannot be distinguished."—MR. G. R. WILKINSON.

[Of spores stopped from germinating] "A sort of contraceptive pili."—Mr. H. TREVES BROWN.

"What is hot water?"-DR. A. H. WALTERS.

"If the plunger had 'banged back' at us I think it would have been noticed." -MR. M. R. W. BROWN.

"We should be happy to work on any organism that would stand up to the conditions."—MR. M. R. W. Brown.



"It is a pity there was no paper on the use and misuse of disinfectants."—MR. G. R. SYKES.

"It is difficult to train any organisms to become resistant to phenol."—Dr. S. E. JACOBS.

"'In the region of 7 minutes' is equivalent to 'within 5-7½ minutes' and not even Mr. Sykes can say otherwise."—Dr. A. M. Cook.

"Dry, clean hands do not transmit infection—wet ones can."—Dr. A. H. WALTERS.

"A pseudomania seems to be running round at the moment."—Dr. A. H. WALTERS.

"If you starve you will have symptoms."—Professor A. D. Macdonald. In ten years' time doctors will realise that the pharmacist knows more about drugs than they do."—Professor A. D. MACDONALD.

"God speed the day when we can live by dispensing."—MR. PATRICK FLOOD.

IRISH MEMBERS OF CONFERENCE: president of the Pharmaceutical Society of Ireland (Mr. H. B. Corrigan) among the many Irish pharmacists and their ladies who came over to Newcastle for the Conference, augmented by a few compatriots now resident in Britain.

NORTHERN LAND'S REPRESENT-ATIVES: Mr. Jack Caldwell (president of the Pharmaceutical Society of Northern Ire-land) with Mrs. Caldwell, Miss A. Rowley, Belfast, and Mr. G. E. McIlhagger, Belfast.

"Many graduates are getting browned

"Conscience is best kept in a warm heart."—MR. SHARMA, Bombay, India. "Irish charm is no illusion." — MR.

C. G. DRUMMOND.

"The difficulty arises when a student of high ideals meets the rough-andtumble of everyday life."-MRS. G. R. BOYES.

"If the Council is not working, that is our fault."—MR. C. G. DRUMMOND.



TRANS-BORDER: Mr. Jack Caldwell, president (from the South) of the Pharmaceutical Society of Northern Ireland and Mr. Hugh Corrigan, president (from the North) of the Pharmaceutical Society of Ireland.

CONFERENCE "WIDOWS": Their Their husbands doubtless in demand elsewhere. Mesdames E. F. Hersant, A. McGuckin, L. R. Renwick and D. Train, wives respectively of the Conference national joint secretary, local secretary, local trea-surer, and national joint secretary, meet for a chat during the evening of the Conference ball.



# BRITISH PHARMACEUTICAL CONFERENCE

# Discussions on the Science Papers

THE first paper read at Section A of the Tuesday afternoon Science Session at which Mr. H. Treves Brown presided, was read by Mr. Brown. It was:—

# Heat Resistance of Bacterial Spores

A. M. COOK and M. R. W. BROWN RECENTLY there has been a reappraisal of the methods of testing sterilisers and sterilising techniques, and spore-impregnated papers have been introduced for that purpose. The spore papers are available as strips, impregnated with spores of Bacillus stearo-thermophilus, sealed in glassine envelopes. Spores on those strips are stated to survive 5 minutes at 121° moist heat, but to be killed after 12 minutes. The resistance to moist heat at 121° was tested in an autoclave, the lid of which contained a plunger-type device to facilitate rapid movement of the spore papers in and out of the autoclave. Immediately after removal from the steam, the strips were transferred to a recovery medium, incubated at 55° and examined at intervals for up to 2 weeks. The results of over 300 observations indicate that the claim made for the survival of the spores has not been substantiated by the authors results. With one recovery medium, 50 per cent. of the spore strips failed to show growth after 3 minutes' exposure. The results also show that all the spore strips after 3 minutes' exposure were capable of producing growth when recovered in a second medium but the percentage dropped rapidly with increased heating time.

(From the Department of Pharmaceutics, School of Pharmacy, University of London)

DR. BULLOCK asked whether any air was carried into the autoclave by the plunger. THE AUTHOR agreed that it did. That was a drawback, but the small dimensions of the cavity (about  $2\frac{1}{2} \times \frac{1}{8} \times \frac{1}{4}$  in.) was insignificant in relation to the total volume, and no observable variation of temperature or pressure had been noted.

pressure had been noted.

MR. R. H. SUTARIA, India, asked if the results of the experiment could be easily applied to the practical con-

ditions in which there would not be so sudden a heating and cooling of the spores. MR, BROWN, while acknowledging that the point was valid, said that if the spore strip had been heated slowly the difficulties would have been much worse.

MR. S. J. CARTER, Leicester, was told that the authors had not been able to find out from the makers whether the time of "heating up" was included in the five minutes survival time mentioned in the paper, and that prompted DR. COOK to say that the authors had not set out to disprove the makers' claims. They had aimed at finding out something about the often reported "heat-resistant spores." They had found that the emerging spores, when cultivated, were much less resistant than spores straight from the soil. Their results, however, indicated that the manufacturers' claims were not upheld.

MR. G. H. WRIGHT, Leeds, was told that no work had been done on the spores of the American foul brood bacillus.

The next paper, part I of which was read by Mr. Brown and part II by Mr. Gerrard, was:—

# Mould Spore Suspensions and Powders

I. PRELIMINARY EXPERIMENTS WITH Rhizopus nigricans and Penicillium digitatum

M. R. W. BROWN and KENNETH BULLOCK REPRODUCIBLE colony counts of spore suspensions of Rhizopus nigricans and Penicillium digitatum have been obtained on a malt medium containing 0.02 per cent. of rose bengal. Spores of those organisms suspended in different strengths of Ringer's solution and stored at 1–4° lost viability after a lag of up to two days. A spray-dried peptone powder containing evenly distributed R. nigricans spores has been prepared without loss of viability of the spores. Investigations previously made in the department related the effects of storage, moisture, heat, disinfectants and ionising radiations to the viability, as judged by roll-tube colony counts, of Bacillus subtilis spores in aqueous suspensions, powders and oils.

The object of the present work was to ascertain how far those investigations could be extended to similar preparations of mould spores.

(From the Department of Pharmacy of the University of Manchester)

II. PREPARATIONS USING Penicillium spinulosum

H. N. GERRARD, ANN V. HARKISS and KENNETH BULLOCK

Spore suspensions of *Penicillium spinulosum* have been prepared containing over 99.0 per cent. of single spores in an even distribution. About 80 per cent. of the spores were able both to produce germ tubes and to form colonies in a roll-tube. A peptone powder containing an even distribution of spores has been prepared. The viable count of the powder did not show a significant fall during five months' storage. The suspension has been successfully used to study the sporicidal and fungistatic activities of chlorocresol solutions. From the work described and from earlier work by others it appears that aqueous suspensions of the spores of different species of moulds may be prepared which are suitable for studying the kinetics of fungicidal action. As a test organism *P. spinulosum* offers certain advantages. (*From the Pharmacy Departments of Manchester University and College of Teclmology, Liverpool*)

MR, S. J. CARTER, Leicester, complimented the authors on the rose-bengal technique. He was happy about its use in the fungicidal tests but less so about its use in the fungistatic ones. Would there not be a combined effect of the antiseptic and rose-bengal? In preparing their suspensions the authors had used "selected" material, namely individually separate spores. Would spores obtained by breaking up the usual clumps have given the same results? His own observations on Aspergillus niger and Penicillium expansum did not confirm those recorded in the paper. MR. BROWN said that, without rose-bengal, no count could have been made in the tests on antimould activity. MR. GERRARD spoke of the authors' difficulty in preparing single-spore suspensions. It appeared

CONFERENCE
BOWLS: Left, Dr.
Eoin C. Dowling, Dublin, sends down a wood
during the sports-afternoon bowls match at
Gosforth bowling club.
Right, measuring-up at
a critical stage of the
match.





CONFERENCE GOLF: Left, golfing members of Conference halted by a C. & D. photo-grapher as they stride out towards the course at Brancepeth Castle, Durham. Right, three entrants in the women's match (Mrs. Angela Hennessy, Dublin; Mrs. Eleanor Forster, Ponteland; and Mrs. Peggy Laws, Newcastle) make a preliminary survey of the course.





likely that naturally ripe spores were more readily detachable than others. If so, then he must agree about the material being "selected."

DR. H. S. BEAN, London, congratulated the authors on having found a dispersible spore. Till then his own experiments had been vitiated because a dispersing agent had had to be introduced.

PROFESSOR BULLOCK said the work must be viewed against its background of his work—so well known as to be-come almost a Conference by-word on systems of low moisture content. He had always wanted to work on mould spores, and the paper represented a concentrated attack on the problem. He thought that they had got a reasonable method. The reason for preferring mould spores was that they were larger and therefore more observable than bacterial spores. He would like to repeat some of his former tests in the light of the new findings.

DR. COOK complimented Dr. Bullock and his co-workers on having applied the statistical analysis of data in a way that proved results could be reproducible. He thought the authors should define their meaning of "fungistatic value." He had always regarded a fungistat as something that stopped a

fungus from growing. Was that the same as stopping spores from growing?

MR. TREVES BROWN remarked that a spore prevented from growing seemed to carry the suggestion of a contraceptive pill.

The next paper, read by Mr. Porter, was:-

# Effects of Pipetting on **Concentration of Spore** Suspensions

H. N. GERRARD and G. S. PORTER

VIABLE counts of micro-organisms are commonly used in the assessment of antibacterial substances, and they usually involve microscopic counts of a suspension of test organisms followed by dilution before enumeration by roll tube methods. Dilutions of about 10<sup>-3</sup> are made by pipetting and it is assumed that they are accurate. It was found that certain unsuspected errors could occur in the preparation of diluted suspensions of micro-organisms and the factors involved were investigated. (From the Department of Pharmacy, College of Technology, Liverpool)

DR, BEAN asked whether any similar

effect had been observed in pipetting bacteria. There had been papers published that indicated errors in the The reply given was reverse sense. that only *Penicillium spinosum* had been used in the work but the same kind of behaviour had been used with B. subtilis.

The next paper, read by Mr. Muir,

# **Neuromuscular Blocking Agents**

VII. LINEAR POLYONIUM ETHERS D. EDWARDS, J. J. LEWIS, D. E. MCPHAIL, T. C. MUIR and J. B. STENLAKE

THE tris-onium ethers (XIII, A and B) and the tetra-onium ethers (XV A, B and C), together with the corresponding polymethylene tris-onium (XIV A and B) and polymethylene tetra-onium (XIV A and B) and polymethylene tetra-onium compounds (XVI, A, B and C), have been synthesised. Replacement of a methylene group in the inter-onium polymethylene chain by an ether link almost always lowers muscle-relaxant

(From The School of Pharmacy, Royal College of Science and Technology, College of Science and Fectimology, Glasgow, and Division of Experimental Pharmacology, Institute of Physiology, University of Glasgow)

PROFESSOR MACDONALD asked if the authors would indicate whether their compounds had any advantages over those currently used in medicine. Mr. Muir replied that no striking advances had been made. A reply given to PROFESSOR BROWNLEE stated that no investigation had been made on whether the new compounds released histamine.

The next was read by Dr. Somers. It was:-

# Thalidomide in Experimental Gastric Ulcers

K. MARTINDALE, G. F. SOMERS and C. W. M. WILSON

A STUDY was made of the effects of thalidomide in stress and phenylbutazone-induced ulcers in the rat. results showed that thalidomide inhibited stress-induced ulcers but did not affect the local mechanisms involved in the pathogenesis of phenylbutazone-induced ulcers. It did eliminate stressinduced components in phenylbutazone ulcers, which indicated that the mode of action is a central one.

(From the Department of Pharma-cology and General Therapeutics, University of Liverpool and the Pharma-

cological Research Laboratories, The (Biochemicals), Distillers Company Ltd., Speke, Liverpool)

PROFESSOR BROWNLEE wanted know if the authors had used atropine in similar trials, and Professor Mac-Donald whether there was something about thalidomide that was different from other tranquillising substances.

Dr. Somers replied that the authors had not obtained similar results with atropine. They considered that thalidomide must have some specific action on that part of the brain which was "tied up with ulceration," but there was a lot more work needed to be done before the action could be tracked down.

At section B of the Tuesday afternoon session Professor Linnell presided. The first paper read was:—

# An Enzymatic Determination of **Prednisolone Phosphate**

P. F. G. BOON

A METHOD proposed for determining prednisolone phosphate in pharmaceutical preparations is based on enzymatic hydrolysis and ultra-violet spectroscopy; it is applicable to preparations that have undergone partial decomposition from prolonged or unsatisfactory storage.

(From the Analytical Department, Glaxo Laboratories, Ltd., Greenford, Middlesex)

Discussion

In reply to Dr. G. E. Foster, Dartford, Mr. Boon said that he had used two supplies of the enzyme differing in potency. The first had remained satisfactory for the test for one year, and the second had been found still suitable after six months. Prednisolone alcohol was less stable than the

Dr. F. Hartley, London, described the method as elegant, and asked how the author ensured that the decomposition products did not interfere with the

assav.

Mr. Boon replied that the solventextractable products were removed before hydrolysis, so that only the products resulting from the enzyme action were obtained in the second extraction.

In reading the next paper, the author drew attention to an error in galley 4 of the pre-circulated proofs, the figure 0.09 being a mistake for 0.22 The paper was:--

### Precision of Some Analytical Procedures

A. R. ROGERS

ESTIMATES were made of the variation in the results obtained by students in eight schools of pharmacy and by analysts in five industrial laboratories performing simple titrations. Coefficients of variation in the range 0·1 to 0·2 per cent, were typical of the industrial analysts. The corresponding figures for the students were mostly in the range 0·2 to 0·5 per cent.

(From the School of Pharmacy, Brighton Technical College)

DR. L. SAUNDERS, London, questioned whether the author was justified in rejecting a number of results on the ground that they did not produce a

straight-line graph.

MR. ROGERS replied that the figures in question would produce a coefficient of deviation of 3 per cent, or 5 per cent, whereas the equivalent coefficient of a group working alongside was about 0.3 per cent. The figures, he believed, had resulted from some error, perhaps in subtraction or in adding a wrong reagent.

Professor G. Brownlee, London, acquitted the author of deceiving his readers, but said it was unfortunate in some ways that he was using a selected statistic. Continuing, he questioned whether the figures from the schools could properly be compared with those from industry because the industrial chemist might, unwittingly, have used a selected statistic merely through foreknowledge of the purpose of the titration.

MR. ROGERS replied that he would like to see results from tests in industry in which the chemist taking part did not know that there was anything special about the titrating. Such a test would be difficult to arrange, but he suggested that occasionally a sample that had been tested once could be "slipped in" for examination again.

MR. C. A. JOHNSON, Nottingham, who had been associated with some of

MR. C. A. JOHNSON, Nottingham, who had been associated with some of the figures used, confirmed that it was difficult to carry out a test of the kind used by the author without persons carrying out the test being on their guard.

DR. G. E. FOSTER, Dartford, who had also supplied some of the figures, said that the results from the schools had raised the query in his mind whether the students were receiving proper instruction.

Replying to a further question by

Dr. Foster, Mr. Rogers said that his students were not routinely tested for colour-blindness, but the proportion of colour-blind students at his school was low, and that affliction would not influence the figures. He assured Mr. STEVENS, Rugby, that the graduations of the pipettes and burettes used by the students were of close A or B standard, but admitted that it was difficult to inculcate an adequate degree of chemical cleanliness into students.

Professor Linnell then handed over the chairmanship of the session to Dr. G. E. Foster, under whom the first paper read was:—

Physico-Chemical Studies of (1-Methyl-2-Pyrrolidyl) Methyl Benzilate Methyl Methosulphate

I. DETERMINATION OF THE COMPOUND IN THE PRESENCE OF ITS BREAKDOWN PRODUCTS

D. O. SINGLETON and MISS G. M. WELLS The determination of (1 methyl-2-pyrrolidyl)methyl benzilate methyl methosulphate by the formation of a chloroform soluble, blue complex with ammonium cobaltothiocyanate is described. The optical density in chloroform at 322 m $\mu$  is directly related to the amount of compound present. The method is applicable in the presence of breakdown products and has been used to determine the concentration of (1-methyl-2-pyrrolidyl)methyl benzilate methyl methosulphate in tablets and in linctuses.

(From the Product Research Division, Beecham Research Laboratories, Ltd., Brentford, Middlesex)

The paper was read by Mr. D. O. Singleton.

DR. FOSTER suggested that an acid sulphate might be formed which would be estimated as the original compound. MR. SINGLETON'S reply admitted that possibility, but said the active part of the drug was the ion. He assured Dr. Foster that no difficulties resulted from acid production when the drug was administered, pointing out that the dosage was low.

The next paper was read by Mr. Levius. It was:—

# Separation and Estimation of Purine and Pyrimidine Bases

K. W. GERRITSMA and H. P. LEVIUS A METHOD is described for the chromatographic separation of a mixture of purine and pyrimidine bases. They are identified as single substances in solution by the ultra-violet lightabsorption at a small number of wavelengths. Checks on the purity of the recovered bases are also described and the method is applied to the separation and estimation of purine and pyrimidine bases from the supernatant fluid of a boiled suspension of Micrococcus flavus.

(From the Department of Pharmacy, Potchefstroom University for Christian Higher Education and Analytical and Research Department, M. L. Laboratories, Johannesburg South Africa)

DR. FOSTER suggested that the interesting method of the author might be used as a guide to the synthesis of anti-metabolites.

anti-metabolites.
DR. H. D. C. RAPSON, Betchworth, said that, in similar work in which hydrochloric acid had been used, he and his co-workers had found it difficut to obtain pure degradation products.

Mr. R. I. Felix read the next paper. which was:—

### Effectiveness of Antoxidants on the Preservation of Fresh Groundnut Oil

G. A. BIRCHALL and R. I. FELIX

A NUMBER of antoxidants were dissolved in groundnut oil and put in 2-oz. open glass jars stored at 37° and 60°. The peroxide values were determined at intervals. Initial determinations were made on all samples and a sample of untreated oil was used as the control. Accelerated tests at 37° and 60° were also made. Four samples of different batches of oil obtained from the same supplier were examined. The antoxidants examined were those re-commended for use in foods; namely n-propyl gallate, n-octyl gallate, n-dodecyl gallate, butylated hydroxy anisole, butylated hydroxy toluene, combina-tions of the above, and combinations of the above with citric acid and acetone dicarboxylic acid. Of the antoxidants examined, the esters of gallic acid, alone or in combination with citric acid or acetone dicarboxylic acid, were the most effective in delaying the onset of oxidative rancidity. Propyl gallate 0.02 per cent. w/v alone weight ester, on a weight basis, resulted in a lower content of the gallate radical and consequent antoxidant





CONFERENCE TENNIS: Left, some of the competitors in the Conference tennis tournament photographed between games. Right: Dr. G. B. and Mrs. West, winners in the tournament, receive their trophies from Professor Linnell and Miss I, P. Coaler.

activity. Acetone dicarboxylic acid alone appeared to accelerate the rate of oxidation and no marked antoxidant activity was evident even in combinaactivity was evident even in combina-tion with propyl gallate. (From the Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24) MR. Felix told Dr. T. D. Whittet,

An Additional Pack.—The Distillers Co. (Biochemicals), Ltd., The Broadway, Wimbledon, London, S.W.20, announce the introduction of an additional size of Distaval forte tablets containing 100 mgm. of thalidomide. The pack is a bottle of 1,000.

Change of Formula.—Vitamins, Ltd., Upper Mall, London, W.6, announce that, after extensive experience with their preparation Tropenal, the concentration of phenobarbitone in the product is being increased, from October 3, from gr. \(\frac{1}{4}\) to gr. \(\frac{1}{2}\) per tablet. The price is unchanged.

Influenza Virus Vaccine.—From mid-October Beecham Research Labora-tories, Ltd., Great West Road, Brent-ford, Middlesex, will have available supplies of influenza virus vaccine prepared at the Wright-Fleming Institute of Microbiology, St. Mary's Hospital Medical School, London, W.2. The product contains a mixture of equal parts of the inactivated viruses A/Singapore/ 1/57 and B/England/1/59. It has a potency by titre of 2,500 to 5,000 (or 10-20,000 haemagglutinating units per mil. Maximum immunity after injection is obtained in about fourteen days, and a high antibody level persists for about three months thereafter. The vaccine should be administered before an epidemic is expected, but may also be given during an epidemic. Pack sizes are a 1-mil vial and a carton of six 1-mil vials.

Now on Drug Tariff. - The medical products group of Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts, announce that Carbonet non-adherent, water-soluble base dressing has been added to the list of appliances of the Drug Tariff. The dressing is available in tins of ten and thirty each  $3\frac{1}{4}$  x  $3\frac{1}{4}$  in in size, sterilised ready for use. It is now in a "significantly improved" form. Made from multi-filament rayon gauze of finer mesh, it is smoother than, and free from the stray fibrils found in the weave of, cotton mesh dressings. Improved Car-bonet is impregnated with a watersoluble glycol mass that is non-greasy and less sticky than soft paraffin. Any residue is easily removed with water. Being hydrophilic, Carbonet discourages maceration, keeps the wound clean, and permits it to heal naturally.

Distribution Changes.—J. F. Macfarlan & Co., Ltd., and T. & H. Smith, Ltd., are forming a new private company, Macfarlan Smith, Ltd., with registered office and head office at Wheatfield Road, Edinburgh, 11, and London sales office at 4 Carlos Place, London, W.1. Macfarlan Smith, Ltd., will be responsible, at home and overseas, for the sales in bulk of the fine chemicals, alkaloids and anæsthetics manufactured by either of the parent companies and will commence trading operations on October 1.

London, that hydroquinone had not been investigated as an antioxidant in the present studies, and Mr. BIRCHALL told Mr. E. ADAMS, Plymouth, that though citric acid had a chelating effect, its limitation was its lack of solubility in oil,
MR. C. G. BUTLER, Bradford, warned

the authors against assuming that the addition of a chelating agent would prevent metals from having an oxidising effect. Some metals when chelated acted as oxidising catalysts, as for example in haemoglobin. That problem needed to undergo further elucida-

# TRADE NOTES

Inquiries and orders for those products should be addressed to the new com-pany at Wheatfield Road, from that date. Urgent orders may be telephoned to the London sales office by customers of either company in the south of England whence they will be teleprinted for immediate attention in Edinburgh. All export orders will be dealt with at the head office. The medical speciality and the non-pharmaceutical products of J. F. Macfarlan & Co., Ltd., will continue to be sold by that company and orders should be addressed to 109 Abbeyhill, Edinburgh, 8. J. F. Macfarlan & Co., Ltd., and T. & H. Smith, Ltd., will be responsible separately for accounts due as at September 30. Registration particulars are given on p. 372.

A Christmas Pack For Men. - A de-luxe pack containing one bottle each of Floid after-shave and pre-shave lotions and eau de Cologne is available from the United Kingdom agents: M. & R. Norton, Ltd., 9 Park Hill, London, S.W.4.

### **Bonus Offers**

CHEMICAL INDUSTRIES, IMPERIAL LTD., pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches. Savlon antiseptic lozenges. Six tubes with order for forty-eight; fifteen with order for ninety-six; thirty-six with order for 192; and seventy-three with order for 288. Savlon antiseptic cream in 30-gm. tubes is added to cover purchase tax paid on the bonus tubes of lozenges.

IRISH MOSS MANUFACTURING CO., LTD., 421 Antrim Road, Belfast. Loughrey's syrup of Irish moss. Fourteen to doz, on three doz. lot. Until October 31.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15. 10 per cent. on direct order value £3 and over. In return for fourtcen-day window display.

Ward, Blenkinsop & Co., Ltd., York House, 37 Queen Square, London, W.C.1. Panets. Thirteen to doz. in return for counter display. Fourteen to doz. in return for counter and window display. Five per cent. extra on order for four display outers of 24 x 16 Panets. (Introductory offers.)

MEAD JOHNSON, LTD., 10 Upper Grosvenor Street, London, W.1. Meter-10 Upper cal. One tin free with one-case order; three with two-case order; six with

three-case order.

# INFORMATION WANTED

The Editor would appreciate information about the following: Mistyque perfume

# NEW PRODUCTS AND PACKS

Neuroleptic and Tranquilliser. -Roche Products, Ltd., 15 Manchester Square, London, W.I, announce the introduction of Taractan tablets and ampoules. The Taractan preparations are understood to show neuroleptic and tranquillising properties and to have also a marked thymoleptic (anti-depressant) activity. The tablets are issued in packs of fifty and 250 (sugarcoated), and the 30-mgm. ampoules in packs of six and fifty.

Expectorant Linctus.—Flavelix, a new speciality of Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Holloway, London, N.7, is an expectorant antihistaminic and antispasmodic cough linctus, each teaspoonful of which contains 12.5 mgm, of mepyramine maleate, 10.0 mgm. of ephedrine hydrochloride, 90.0 mgm, of ammonium chloride and 40.0 mgm, of sodium citrate, in a palatable flavoured base to Flavelix is claimed especially valuable in coughs associated with the common cold. It is available in bottles of 4 fl. oz. and dispensing "winchesters" of 20 and 80 fl. oz.

A Liquid Vitamin Tonic. — Boehringer products division, Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, announce that, from September 30, Villescon liquid is being introduced to the medical profession in Britain, Each teaspoonful (5 mils) of Villescon liquid contains 2.5 mgm. of phenylpyrrolidinopentane hydrochloride, 1.7 mgm. of vitamin  $B_1$ , 1 mgm. of vitamin  $B_2$ , 0.5 mgm. of vitamin  $B_9$ , and 5 mgm. of nicotinamide in a pleasant raspberry-flavoured vehicle. The pack is a bottle of 4 fl. oz. Villescon liquid is packed under nitrogen, and should be dispensed only in its original 4-oz, container. Supplies are available through wholesalers or from the company's distribution department, Ramsgate Road, Sandwich.

A Treatment for Obesity.—Pharmax. Ltd., Western House, Gravel Hill, Bexleyheath, Kent, are presenting to the medical profession Metamsustac (sustained action) methylamphetamine hydrochloride for the treatment of obesity by controlled release. Methylamphetamine hydrochloride is understood to have a more rapid effect and a longer period of action than amphetamine sulphate, with undesirable side actions significantly minimised or absent. The tablets are made by an improved layering process by which the release of the methylamphetamine hydrochloride is claimed independent of the pH of the gastro-intestinal contents and is therefore continuous and controlled over a period of 8-10 hours after ingestion. A single Metamsustac tablet, taken in the morning, is understood to provide effective appetite suppression throughout the day. The packs are containers of thirty and 250  $7\frac{1}{2}$ -mgm. or 15-mgm. tablets.

# LEGAL REPORTS

**Belfast Hearings Adjourned** 

THE police case against V. Cornett & Co., Ltd., pharmaceutical chemists, Woodvale Road, Belfast, who were charged with supplying Drinamyl tablets without a prescription given by a qualified medical practitioner, was at Belfast summons court on September 15 adjourned until September 28. So was the hearing against the company's pharmacist, Robert McGrath, Woodvale Road, who was charged with aidhearing Professor O. L. Wade (professor of pharmacology and therapeutics, Queen's University, Belfast) told the court of examining a woman patient who had come to him with a variety of complaints. As a result of what she told him, he came to the conclusion that she was a drug habituate. She showed him the tablets she was taking. They were heart-shaped and coloured blue. He formed the opinion that they were Drinamyl because there were no other heart-shaped tablets of that size and colour on the market. The woman had been admitted to Belfast city hospital under Professor Wade's care, and had remained there for some time. An overdose of either of the drugs contained in the tablets was a serious matter said witness, and the patient "certainly was a habituate of the Drinamyl."

# **COMPANY NEWS**

Previous year's figures in parentheses

JOHN & E. STURGE, LTD. — A second interim dividend of 3 per cent. for the year ending December 31 is declared.

ASPRO-NICHOLAS, LTD. and GRAESSER SALICYLATES, LTD.—Aspro-Nicholas, Ltd., have purchased the Ordinary capital of Graesser Salicylates, Ltd., for £200,000 cash. Mr. F. R. Graesser-Thomas, who founded the firm, will remain chairman.

NEWTON, CHAMBERS & CO., LTD.—Interim dividend is 8 per cent. (6 per cent.). From the results to date and subject to the usual provisos the board expect to recommend a total of 20 per cent. for the current year. To prepare the way for a one-for-eight "rights" issue, the terms of which will be announced shortly, the £1 ordinary shares are to be divided into 5s. units and the authorised capital raised from £3 millions to £3½ millions.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Two new directors have been appointed to the board of the company's alkali division, on the merger of the salt and alkali divisions on January 1, 1961. On that date Mr. E. H. Sale, who has been managing director of salt division becomes a joint managing director and Mr. E. K. Willing Denton (commercial director of salt division), a director of alkali division.

MEGGESON & CO., LTD.—Group net profit year to June 30, £14,944 (£14,708), after tax £617 (£1,607). To general reserve £12,000 (£10,000), dividend 7½ per cent. (same), gross £2,250 (same). Forward £6,655 (£7,461). Fixed assets £242,419 (£109,753), current assets £156,895 (£251,112), liabilities

£44,281 (£22,010). Commitments—nil (£133,000). Directors hope that amount to be received for present factory—when agreed with London County Council—will be much greater than balance-sheet value.

METROPOLE INDUSTRIES, LTD.—The company, which has a substantial investment in the packaging industry, through J. Billig & Sons, Ltd., has acquired for £70,000 in cash, the whole of the capital of Fibrenyle, Ltd. (manufacturers of plastic containers). Messrs. Billig and Fibrenyle will have the same sales organisation and the same customers' research service. Mr. C. G. Holland-Martin, J.P., will remain chairman of Fibrenyle. Net assets of Fibrenyle are £47,000. Profits last year were £19,000 before tax, and the directors have stated that, unless there are unforeseen circumstances, they expect the profits for the current year to be not less than £30,000.

VITAMINS, LTD.—Results for the current year are so far rather better than normal, states Mr. H. C. H. Graves (chairman) in the annual statement accompanying the accounts. The lower group net profit in the year ended March 31, of £129,280 (£177,129) was mainly caused by the necessity to write down stocks, which, it is hoped, will not recur. Dividend is being maintained at 12½ per cent. on capital increased by a one-for-five rights issue and a subsequent one-for-one scrip issue. In the year under review turnover in all trading divisions expanded, and established, by a wide margin, an all time record. Some relatively slight lowering of profit margins occurred. But for the stock revaluation and difficulties in the development of one of the newer projects, now believed to have been overcome, Mr. Graves says, the year's trading profit would have exceeded that of the previous year "by a comfortable margin." The directors are at present in negotiation for the acquisition of a business which, if acquired, should interlock well with that of the group.

Discussing the voluntary price regulation scheme operated by the British pharmaceutical industry at the request of the Ministry of Health, Mr. Graves says: "This is the only scheme of its kind in the whole field of procurement of Government supply. Oddly enough it is being used to control the prices of an industry which is—almost more than any other—subject to the chill blast of world competition." . . When the Committee on Public Accounts has conceded that where home prices are regulated to equal export prices there can be no question of their genuineness "it is surely odd," adds Mr. Graves, "that the pharmaceutical industry, with its magnificent export performance far exceeding, pro rata to its home sales performance, that of the majority of other industries, should be the one selected for price control—even if it be 'voluntary'."

# New Companies P.C.=Private Company; R.O.=Registered Office

H. FERRIE (CHEMIST), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale or retail chemists, etc. Directors: Harry Ferrie,

M.P.S., and Nora H. Ferrie, R.O.: 152 Sharrow Lane, Sheffield, 11.

ALEX MARTIN (CHEMIST), LTD. (P.C.).—Capital £3,000. To carry on the business of chemists, etc. Directors: Alexander Martin, M.P.S., Elizabeth A. C. Martin and Leonard W. Pottle. R.O.: 22 Upper George Street, Luton.

MACFARLAN SMITH, LTD. (P.C.).—Capital £100,000. To carry on the business of manufacturing chemists, etc. Directors: D. Rainy Brown, N. Rainy Brown, A. Forsyth, M.P.S., J. A. Hiddleston, P. Mackenzie, M.P.S., and R. H. Mathew, R.O.: Wheatfield Road, Edinburgh.

UNA PHARMACEUTICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing and general chemists and druggists, etc. Directors: John S. Gwatkin and Laurence M. Spalton, M.P.S. R.O.: Neville House, Eden Street, Kingston-on-Thames.

# **BUSINESS CHANGES**

WINTHROP GROUP, LTD., is the new trading title adopted by Bayer Products, Ltd., Winthrop House, Surbiton-on-Thames, Surrey.

AS from early October the company title, address and telephone number of Phillips, Scott & Turner, Ltd., will be Phillips, Scott & Turner, St. Mark's Hill, Surbiton, Surrey (telephone: Elmbridge 5751).

WARD, BLENKINSOP & CO., LTD., have now moved to their new premises at Fulton Road, Wembley, Middlesex (see C. & D., September 3, p. 272). The telephone number is Wembley 8686.

DISTILLERS CO., LTD., have formed a development division in their industrial group under Dr. H. M. Stanley as controller, who will be located at 21 St. James's Square, London, S.W.I. The main responsibilities of the division will be the direction and co-ordination of the company's research, forward planning and licensing activities, particularly in the fields of chemicals and plastics.

### **Appointments**

DOMESTOS, LTD., have appointed Mr. L. T. Sadler their branch area manager at Southampton.

HORLICKS, LTD., Slough, Bucks, have appointed Mr. Duncan MacKenzie their medical representative in the Dundee area.

### MARRIAGES

FEHILY—DAVIS.—At St. Andrew's Church, Westland Row, Dublin, Eire, on September 14, John Fehily, M.P.S.I., Killyon, Hill-of-Down, co. Meath, to Noeline Davis, Loughrea, co. Galway.

McSORLEY—NOONAN. — At. St. Eugene's Cathedral, Londonderry, recently, Frank McSorley, Killymore, Newtownstewart, Omagh, co. Tyrone, Northern Ireland, to Gertrude Noonan, M.P.S.I., Killygordon, co. Donegal, Eire.

PEERS—HOULDEY.—At St. Werburgh's Church, Chester, on August 29, John Ross Peers, B.Sc., M.P.S., Ellesmere Port, Wirral, Cheshire, to Patricia Jane Houldey.

# **DEATHS**

BROWN. — On September 7, Mr. William W. Brown, M.P.S., 10 Tipperlin Road, Edinburgh. Mr. Brown qualified in 1907.

COLLINS. — On August 16, Mr. Stanley Collins, M.P.S., The Post Office, Walsham-le-Willows, Bury St. Edmunds, Suffolk. Mr. Collins qualified in 1920.

CRUICKSHANK. — At his home, Braeheads, Turriff, Aberdeenshire, recently, Mr. George Morrison Cruickshank, M.P.S., aged eighty-five. Mr. Cruickshank retired about four years ago from his chemist's business in High Street, which was taken over by his son (Mr. D. J. Cruickshank, M.P.S.). He served on the town council for twenty-seven years and was a former provost.

CULBERT.—On September 12, Mr. Hugh Spence Culbert, M.P.S., 49 Bank Street, Dumfries. Mr. Culbert qualified in 1907.

GOUGH. — On September 18, Mr. GOUGH. — On September 18, Mr. John Henry Gough, F.P.S., Manor Farm, Gawcott, Buckingham, aged eighty. Mr. Gough served his apprenticeship in Stoke Newington, London, and qualified from Dr. Muter's School of Pharmacy, taking his "Major" qualification in 1893. He went to Leeds in 1900 to represent Reynolds & in 1900 to represent Reynolds & Branson, Ltd., and within a year was given charge of that company's Commercial Street premises. He was made a director of the company in 1908 and its secretary in 1918. For twenty-six years Mr. Gough taught practical pharmacy and materia medica at the Leeds School of Medicine and also organised evening classes in pharmacy and materia medica for apprentices. He was chairman of the Leeds Branch of the Pharmaceutical Society in 1934. Mr. Gough retired from his directorship of Reynolds & Branson, Ltd., in 1939, and moved to Buckingham, Early in the 1939-45 war he worked in the pharmacy of the late Mr. D. Low, M.P.S., Winslow, and later, when the business was turned into a company, he was appointed a director.

HARTLEY.-Recently, Mr. Harry Hartley, special services manager, Beecham Foods, Ltd., Brentford, Middlesex, aged sixty-four. Mr. Hartley had completed over thirty-three years' service with companies in Beecham group. He joined Macleans, Ltd., as a salesman in North-west England in 1927 and in 1938 transferred to Brentford as the company's sales promotion manager, A year later he became purchasing manager and in 1942 was made sales manager. He became marketing manager in 1947 and grocery sales manager in 1950. Mr. Hartley took an active part in the formation of Harold F. Ritchie, Ltd., in 1953, and when that company was integrated with Beecham Foods, Ltd., in 1955, he was made special services manager, Beecham Foods, Ltd., and had responsibility for many of the more important accounts. Mr. Hartley, who was to have retired this autumn, is survived by his widow. is survived by his widow.

HELYER.—On August 17, Mr. William Thomas Jeans Helyer, M.P.S.,

Apartment 1st, East, 5319 Cabanne, St. Louis (12), Missouri, U.S.A. Mr. Helyer qualified in 1924.

HENDERSON. — On August 30, Mr. James Andrew Henderson, M.P.S., 34 Aldridge Road, Langley, Slough, Bucks, Mr. Henderson qualified in 1909.

LOWDEN.—On August 2, Mr. James Lowden, M.P.S., 40 Market Street, Hoylake, Wirral, Ches. Mr. Lowden qualified in 1924.4

NICHOLAS.—In Melbourne, Australia, on September 20, Mr. George Richard Nicholas, O.B.E., a founder of Nicholas Proprietary, Ltd., aged seventy-six. Mr. Nicholas began his career as a pharmaceutical chemist in Melbourne in 1913. When the 1914–18 war broke out the Australian Government offered sole manufacturing rights to anyone who could discover how to make aspirin, then a German patent. He worked early and late in his shop and eventually successfully evolved the preparation which was later marketed as Aspro. The wealth that his process brought enabled him and his brother (Alfred M. Nicholas), to build up a flourishing pharmaceutical business which today has factories in fourteen countries.

SPALTON.—On August 30, Mr. Frederick Leonard Spalton, M.P.S., Glenside, Second Avenue, Douglas, I.o.M. Mr. Spalton qualified in 1916.

THOMAS.—On September 10, Mr. James Jeffrey Thomas, M.P.S., 42 King

Street, Sandwich, Kent. From 1924-32 Mr. Thomas was the owner of a pharmacy in Kenilworth and was a member of the Warwickshire Pharmace ut ical Committee and National Health Insurance Committee, He next a cquired Turner's Pharmars Pharmace Committee and Turner's Pharmars P



macy, Cambridge, where he remained until 1936. From 1940 to 1944 he was in business at Wheathampstead, Herts, and in 1945 moved to Sandwich, where he bought two pharmacies in King Street, Elected to the town council in 1946 he became mayor of Sandwich in 1950. He was also a former speaker for the Cinque Ports, a freeman of Sandwich and a Kent county councillor. Mr. Thomas was a past-chairman of the East Kent Branches of the Pharmaceutical Society and the National Pharmaceutical Union. He sold his pharmacies in 1949.

WAINWRIGHT. — Of the late Mr. Frank Wainwright (see C. & D., September 17, p. 337) Mr. John Swan, Southampton, writes:—By the recent death of Frank Wainwright of Eastleigh, many in this district, in and out of pharmacy, will mourn the passing not only of a man of outstanding character, business acumen and definite loyalties, but also of a true sportsman in every sense. I recall with great pleasure the delightful ease with which

he hit a golf ball, and his prowess at snooker—especially when it came to "penny on the black"; it was a source of great fun to his friends and to himself alike.

WOODMAN.—Recently, Mr. William Arthur Gelsthorpe Woodman, M.P.S., managing director, Ward & Woodman, Ltd., 17 Eastgate Street, Gloucester, aged seventy-four. Mr. Woodman's home town was Malvern. He went to Gloucester in 1911 as manager for the late Mr. J. Ward's shop in Eastgate Street, He became Mr. Ward's partner two years later and the sole proprietor of the firm in 1949.

# PERSONALITIES

MR. THOMAS HELMN, M.P.S., who has been manager of the North-

umberland Street, Newcastle-on-Tyne, branch of Boots, Ltd., for the past fourteen years is to retire on Octo-ber 1. Mr. Helmn, who qualified in 1923 after training at the College of the Pharmaceutica1 Society, London, joined Boots, Ltd., in



1931. He worked at Sheffield and Swindon before being appointed manager of Newcastle's largest branch in December 1946. A member of Newcastle-on-Tyne Rotary club and of the Faraday Lodge of Freemasons, Mr. Helmn also serves on the local Pharmaceutical Committee and Pharmaceutical Service Committee.

MR. WILLIAM POMFRET, M.P.S., chief pharmacist of Blackburn Royal Infirmary, retired on September 17 after thirty-eight years at the hospital. Speaking of his retirement to a local journalist Mr. Pomfrey said: "I shall be quite happy to do a bit of gardening at my home in Haston Lee Avenue, Blackburn, and have the odd game of snooker—you know, I beat Joe Davis once."

MR. J. W. UPTON, who retired recently from the position of Edinburgh sales manager of J. F. Macfarlan & Co., Ltd., 109 Abbeyhill, Edinburgh, 8, has been employed in the pharmaceutical industry for the past fortyseven years. He started his career with E. H. Butler & Son, Ltd., Leicester, in 1912, and since then has had periods with Barclay & Sons, Ltd., Farringdon Street, London, E.C.1, Dakin Bros., Ltd., Middlesex Street, London, E.1, served in the Royal Army Medical Corps during the 1914–18 war, and as export manager with Southall Bros. & Barclay, Ltd., Birmingham, until 1944. Since then he has been with Messrs. Macfarlan, and his activities have taken him around Scotland, Northern Ireland and Eire. Whilst in Edinburgh Mr. Upton has taken an active part in the Scottish Wholesale Druggists' Association, and has been a member of a subcommittee of the Surgical Dressings Manufacturers' Association.

# PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," September 14

Inhibition of isonlazid acetylation, F. W. Horner, Ltd. 853,519.

, Manufacture of addition compounds of 5-nitrofurfuraldehyde semicarbazone. Norwich Pharmacal Co. 853,635.

Carboxylic acid esters of 17-alkyl-19-nor-testosterones and the manufacture thereof. Schering, A.G. 853.735

Animal feed supplements, CIBA, Ltd. 853,593.

Sulphonyl urea antediabetic agent and prepara-tion thereof. C. Pfizer & Co., Inc. 853,555. Diquaternary compounds and process of preparing

same, C, Pfizer & Co., Inc. 853,799.

Pharmaceutical compositions and methods producing phenylcyclohexane compounds. Parke, Davis & Co. 853,775.

Oxytetracycline composition and thereof, C. Pfizer & Co., Inc. 853,462.

Stabilised oil-soluble vitamins, Van Camp Sea

Food Co. 853,810.

Piperldine compounds and their preparation. S. M. McElvain, 853,814.

Sterold compounds and their preparation. Laboratoires Français de Chimiotherapie. 853,402.

Preparation of dustless starch, Corn Products Refining Co. 853,928.

Derivatives of novobiocin. Merck & Co., Inc. 853,592.

Phenihiazine derivatives and processes for their preparation. Soc. des Usines Chimiques Rhone-Poulenc. 853,803.

Lysine racemase and the preparation of DL-lysine. Pfizer & Co., Inc. 853,563.

Benzimidazolium compounds. Farbenfabriken Bayer, A.G. 853,374.

Benzothiazole derivatives and their salts and process for the production thereof, Cilag-Chemic, Ltd., formerly Cilag, Ltd. 853,792.

Albumin diagnostic compositions, Miles Laboratories, Inc. 853,643.

Derivatives of 5-nitro-2-furfuraldehyde. Norwich

Pharmacal Co., Ltd. 853,841.

Process for the manufacture of (5, 6-dimethylbenzimidazol)-cobalamine, 853,831.

Cyclopentanophenanthrene derivatives and processes for the production thereof, Syntex, S.A. 853,850-51.

Steroids and the synthesis thereof. Olin Mathieson Chemical Corporation. 853,736.

Fungicidal compositions containing isocyclohexi-mide, Upjohn Co. 853,636.

Plant growth regulating composition. Rohm & Haas Co. 853,595.

Dioxaphosphorinanes and their preparation.
Hooker Chemical Corporation. 853,719,

Dentifrice dispensing tooth-brush, A. F. R. Peyron. 853,780.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

# TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 14 For cosmetic preparations (not being toilet preparations) and perfumes (3) and for deodorants

AUTOMAGIC, B792,071-72, by Antoine François Regis Peyron, Paris, 9e, France.

For soaps, detergents (not for use in industrial or manufacturing processes); and cleaning preparations for domestic purposes (3)

CORAL, 800,666, by Lever Bros., Port Sunlight, Ltd., Port Sunlight, Ches.

For non-medicated toilet preparations and cos-metic preparations, all being goods manufactured and for sale in the United Kingdom and for export to the Republic of Ireland and the Channel Islands (3)

Device with words POND'S COLD CREAM, 800,686, by Chescbrough-Pond's, Ltd., London, N.W.10.

For all goods (3)
LADY LUCK, LORD LUCK, 805,434-35, by
Proprietary Pressure Packages, Ltd., Birming-

For oxyl chemical substances and preparations, all for use in medicine and pharmacy (5)

COLOXYL, 792,225, by Fawns & McAllan Pty., Ltd., Croydon, State of Victoria, Australia. For pharmaceutical preparations of vitamin B for sale in the United Kingdom (5) BECOVITE, 795,897, by Vitamins, Ltd., Lon-

don, W.6.

For fungicidal preparations for use in viticulture

VITAGRAN, 796,482, by Farbwerke Hoechst. A.G., vormals Meister Lucius & Brüning. Frankfort-on-Main-Hoechst, Germany.

For pharmaceutical preparations for use as analgesic muscle relaxants (5)
CARISOMA, 797,401, by Glaxo Laboratories.

Ltd., Greenford, Middlesex.

Ltd., Greenford, States Ltd., Greenford, States States General goods (5)
GERIOPTIL, 797,679, by Arzneimittelwerk Fischer O.H.G., Bühl (Baden), Germany, CONTINUS, 798,096, LEXITAN, 798,103, by Roche Livy Herts. Products, Ltd., Welwyn Garden City, Herts. LOVO, 801,964, by Fisons Pest Control, Ltd., Harston, Cambs. SOROT, 802,781, by Ravens-berg, G.m.b.H., Zurich 11/50, Switzerland. PINTEROL, 803,492, by Boots Pure Drug Co., Ltd., Nottingham, MELBROSIA, 804,687, by

Paul Josef Urban, Vienna 1, Austria.
For sanitary towels and sanitary clothing (5) ZORBIT, 798,711, by Ashton Brothers & Co.,

Ltd., Manchester 1. For germicides for use in the manufacture of soap (5)

PURALIN, 800,146, by Lever Bros., Port Sunlight, Ltd., Port Sunlight, Ches.

For dietetic preparations in jelly form, all containing honey (5)
HONE-JEL, B800,490, by British Chemo-

HONE-JEL, B800,490, by British Cl theutic Products, Ltd., Bradford, Yorks.

For pharmaceutical preparations in tablet or capsule form for the treatment of nervous depression

PARSTELIN, 801,930, by Smith Kline French Laboratories, Ltd., Welwyn Garden City, Herts.

For pharmaceutical preparations (5)

ZINTRAN, 803,154, by Commercial Drug and Chemical Co., London, B.1.

# TELEVISION

Figures in the columns represent number of appearances of the product during the week.

October 2	-8		London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Anadin			4	4	3	_	_	4	3	=	_
André Phi											
men's r	ange	٠.	_	_	_	1	_	_	_	_	_
Askit	• •	٠.	_	_	_	_	_	_	_	_	7
Aspro	• •	٠.	4	2	3	2	5	3		2	_
Bisodol		٠.	5	_	_	_	_	_	6	_	_
Bristow's			3	3	3	_	_	3	_	_	_
Christy's											
face pa		٠.	1	1	1	1	_	_	_	_	_
Cooper's		٠.	3	3	3	1	3	3	2	1	2
Crookes D											
capsules			_	_	3	-	_	-	4	_	_
Cuticura		٠.	_	2	2	2	_	_	_	_	_
Euthymol	tooth-										
paste		٠.	_	1	1	1	1	1	1	1	—
Fynnon sa		٠.	2	2	2	2	2	2	2	2	11
Hemotabs			_	_	2 2 3	_		_	—	_	
Hi-Glo sh	ampoo		3	3	3	_	3	3	3	_	_
Kruschen	salts		_	_	4	—	_	_	_	_	_
Loxene me	edicated										
shampoo	·		3	3	2	3	3	3	3	3	3
Milk of	Magnesia			1	1	—	—		_	_	1
	tablets		2		—	2	2	2	2	2	—
Penetrol i	nhalant .		1	1	1	—	—	—	1	_	_
Phillips to	oth-paste		1		—		_	_	_	_	
Rennies			3	3	2	3	2	2	2	3	3
Rimmel			_	_	_		—	_	1	—	_
Rinstead 1	astilles .		1	_	1	1	1	1	1	_	1
Sebbix sha			_	2	3	2	3	2	1	3	2
Silvikrin li											
shampoo			3	4	3	4	3	3	3	4	3
Tru-Gel			4	2		2	2	4			2
Winspray			_	_	_	_	_	1	_	_	_
Velouty po											
cream			1	_	_	_			_		_
Yeast-Vite			î	1	1	1	1	1	1	1	1
			_				-				
10 X 7 10 1	TODO										

# COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of Insertion.

### Sunday, September 25

LIVERPOOL SCHOOL OF PHARMACY, OLD STUDENTS' ASSOCIATION, at 10.30 a.m. Motor-car treasure Start from Mersey tunnel entrance, Birkenhead.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, at 3 p.m. Motor-car treasure hunt. Start from forccourt, Nottingham Forest F.C.

### Monday, September 26

ENFIELD CHEMISTS' ASSOCIATION, Enfield Arms hotel, at 7,30 p.m. Mr, A, R, G. Chamings (a member of the Pharmaceutical Society's Council) on "Trends in Modern Medicine."

HARROW, HENDON AND EDGWARE, and WEMBLEY BRANCHES, PHARMACEUTICAL SOCIETY, town hall. Wembley, at 8 p.m. Mr. C. C. Green (deputy secretary, Proprietary Articles Trade Associa-tion) on "Resale Price Maintenance."

HOUSTRIAL WELFARE SOCIETY, 48 Bryanston Square, London, W.1, at 2.15 p.m. Mr. H. Samuels, barrister-at-law, on "Wage Payment Systems and the Effect of the Payment of Wages Act, 1960." Also a discussion on recent developments in factory law.

PESTICIDES GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 5.30 p.m. Dr. E. H. Colhoun (Pesticide Research Institute, Canada) on "Interpretation of Mechanisms of Insecticidal Action."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Freedom Fields Hospital, at 7.30 p.m. Mr. E. Adams on "Bacteriology in Pharmacy."

# Tuesday, September 27

DONCASTER BRANCH, PHARMACEUTICAL SOCIETY, Dantim hotel, at 8 p.m. Mr. T. Firth (Porter. Wright & Co., Ltd., wine importers) on "The Choice of Wine."

Sheffield Branch, Pharmaceutical Society, Royal Victoria hotel, at 8 p.m. Mr. R. V. Keen (Distillers Co., Ltd.) on "Plasties."

### Wednesday, September 28

DURHAM COUNTY, NEWCASTLE AND NORTHUMBER-LAND, SUNDERLAND and TEES-SIDE BRANCHES, PHARMACEUTICAL SOCIETY, Three Tuns hotel, Durham City, at 7 p.m. North-eastern regional conference, Speakers: Messrs, A. Aldington and J. C. Bloomfield.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY. Bolton old links, Competition for I.C.I. trophy. SOUTH LONDON AND SURREY PHARMACISTS' GOLFING Society, Shirley Park golf club, Addiscombe Road, Croydon, At 1.30 p.m., a Stableford competition; at 7 p.m., annual supper.

# Thursday, September 29

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, at 7.45 p.m. Mr. A. Gregory on "Photographing the Roof of the World." ISLE OF WIGHT BRANCH, PHARMACEUTICAL SOCIETY. Bugle hotel, Newport, at 7.30 p.m.

on the British Pharmaceutical Conference.

PURCHASING OFFICERS' ASSOCIATION, Scarborough.
Conference and minibition. (Until October 1.)
WORSHIPFUL SOCIETY OF APOTHECARIES OF LON-DON, FACULTY OF THE HISTORY OF MEDICINE AND PHARMACY, Congress on "The History of Medicine and Pharmacy": a.m. at Apothecaries' Hall, Blackfriars Lane, London, E.C.4; p.m., at Royal Society of Medicine. (And on Parishan)

YORKSHIRE BRANCH, GUILD OF PUBLIC PHARMAcists, Hospital for Women, Leeds, at 6.30 p.m. Dr. S. M. Parsons (Medical Research Council) and Mr. D. A. Hirst on "Blood Chemistry,\*

# Friday, September 30

WORSHIPFUL SOCIETY OF APOTHECARIES. Congress on "The History of Medicine and Pharmacy": a.m., at Apothecaries' Hall; p.m., at Royal College of Physicians; Congress dinner at Apothecaries' Hall, (See Thursday also.)



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# Pure and Unadulterated

THE passing of "An Act for Preventing the Adulteration of Articles of Food and Drink" took place in the British House of Commons 100 years ago. The Act was in effect the first authoritative Governmental response to growing disquiet among physicians and chemists of the day over the widespread "dilution" of foodstuffs by profiteering merchants. Forty years earlier, a Hanoverian chemist named Frederick Accum had published a "treatise on the adulteration of food and culinary poisons" (of which fuller mention is being made by Dr. Whittet in his article, commencing this week (p. 378), on pharmacy's part in the improved standards of purity of foods and drugs. Unfortunately, little attention was paid to Accum's findings, and it was not until 1850 that the matter again came into prominence. In that year the Editor of the Lancet was spurred to set up the Lancet Analytical Sanitary Commission. Under the direction of a Dr. A. H. Hassall, the commission conducted analytical tests on a variety of foods and, after the publication of their findings, a Parliamentary committee was appointed to investigate the matter. The Committee's report led to the tabling of the 1860 Act. In itself, the Act was a disappointment to the advocates of food standardisation, for it did little beyond authorising local authorities to appoint, if they so desired, analysts to whom consumers could, if they wished, submit samples of purchases for test. Public apathy was apparent from the start, for only a few counties took the trouble to nominate official analysts, and those analysts were far from overworked by a population that seemed content to risk survival outside the Government's tentatively offered protective cloak. However, members of the medical world were conscious of what their duties were in that respect once the initial step had been taken in 1860 and, after further years of negotiation and frustration, they were rewarded when a more stringent Act was carried through Parliament. That remedied, by instituting enforceable pure food legislation and making the appointment of public analysts a legal necessity, the confused state of food quality control that still existed. By that time, manufacturers had realised that it was in their own interest that their products should be subject to strict analytical controls. Their efforts led to a quest for new developments in the field of food research, such as improvements in essential food content, safe preservation under widely differing storage conditions, and the presentation of foods in eyecatching packs. The snowball of competitive research

has gradually gathered pace since then until today consumers are fortunate in having, in addition to the backing of more Parliamentary legislation (the most recent being the Food and Drugs Act, 1955), the assurance of the market-seeking manufacturer himself that his food is quality-tested to the highest degree. A far cry, indeed from the conditions that existed a mere 100 years ago!

# Five Shopping Days?

RETAIL pharmacy cannot exist economically without unqualified assistance, and that assistance has to be—or should be—of a higher calibre than is called for in other types of retail establishments. Some of the counter work in a pharmacy may, it is true, be described as "straight retailing," but it is essential that the staff employed shall appreciate the special risks inherent in the goods they handle and the problems—both legal and moral—that arise only in pharmaceutical establishments. It has been evident for some time that unqualified staffs are becoming more and more difficult to obtain, and it is considered by many that the difficulty is caused primarily by the necessity in most establishments to work a five-and-a-half-day week, including Saturday afternoons.

There has in consequence arisen the suggestion that the retail trades in general should work a five-day week. Some retailers are of the opinion that, if shops were to close for a whole day in each week instead of for a half-day as at present, it would be possible to offer shop assistants a five-day working week. That suggestion has been gaining ground, but it would appear that many are agreeing with the recommendations after only superficial thinking. The National Chamber of Trade has set itself to ascertain in some detail the views of its members on the subject. Some have suggested that the proposal, if carried out, would not unduly inconvenience shoppers, while shopkeepers would, in line with the hours worked in other occupations, be enabled to enjoy greater leisure than is now possible. If the proposal were backed by legislation, it is contended, turnover would not be affected as shoppers would still spend the same amount as now, their spending being concentrated into the shorter period. Others have contended retail distribution is a service, and that facilities should be available to shoppers at all reasonable times. Some, indeed, believe reducing the number of working days would not necessarily achieve the objective of attracting more and better shop assistants. For there is no doubt that one of the attractions outside the distributive trades is the consecutive two-day break each week, and that is often more sought after than two separate breaks of twenty-four hours each. The mere reduction of hours worked, therefore, might not be an attraction unless the additional day were either Saturday or Monday. Those who criticise the proposals also suggest that difficulties might arise in the delivery to shops of goods from manufacturers and wholesalers, but that difficulty does not appear to us to be insuperable.

The present half-day closing, which often differs in adjacent territories, possibly causes even greater complexities at the present time. It has been stated also that costs would increase, but that risk again would need a detailed evaluation, because some savings must also accrue, if only in heating and lighting. The board of management of the National Chamber of Trade has suggested that each local chamber might set aside a

meeting for a full discussion of the subject, so as to ascertain so far as possible the views of all affected sections of the public — shopper, shop assistant and shopkeeper.

Some local chambers have already indicated that they do not support the idea of the five-day week. When the executive committee of the Broadstairs Chamber of Commerce discussed the matter, one member even went to the length of proposing that an anti-five-day-week campaign should be launched. He advocated a six-day week of forty-eight hours, each employee to have half-a-day off each week. Pharmacists engaged in retail practice will be interested in the results of both local and national discussions of the proposal—which, of course, would involve, so far as they were concerned,

more "rota" problems. In any discussions regarding a five-day week for retail establishments we would suggest that the problem to be faced is not merely that of obtaining a greater share of the labour that is available (for we feel that those who wish really to succeed would come in without worrying unduly about the odd half-day). The basic question is whether there is scope for ambition and personal satisfaction. The problem in pharmacy, of course, is that an unqualified person can never take the place of one who has the necessary qualification, and that often militates against recruitment of the type of person with the intention of staying a lifetime. Possibly even that problem and the hours to be worked are relatively insignificant compared with the questions of prospects and remuneration.

# HOSPITAL PHARMACY FORUM

# THE COPENHAGEN CONGRESS

THE three subjects chosen for study by the hospital pharmacists' section of the International Pharmaceutical Federation at Copenhagen brought forth enough discussion to indicate that, despite apparent differences, the problems of hospital pharmacy are much the same everywhere. The much disputed question of the naming of dispensed medicines is evidently not confined to Britain, though it was interesting to find that, in most countries in Europe, it is quite common to name them. Signor Pirani of the Ospedale Maggiore, Milan, described the machinery and procedure used in his hospital for packaging tablets and suppositories. There, the practice of identifying all such "single-dose" drugs has gone so far that machines have been installed for packaging them on ribbons of transparent tissue or other plastic material, each printed with the name of the product. As in many of the larger British hospitals, a wide variety of drugs are prepared in the hospital and all are packed on the continuous-tape machine. The advantages claimed for such a practice are, first, safety, since each product bears its name up to the moment of use; secondly, cleanliness, since the tablets are not handled in counting them during dispensing; and thirdly, economy, since residues unused in the wards may readily be returned to stock. The Dutch and the British shared the view that it is not always in the patient's best interest that he should be informed of the name of his medicine and that consequently such a procedure would not find favour in those countries. The question nevertheless remains how long hospital pharmacists will be able to resist practices that are rapidly growing within the industry. Undoubtedly, the strippack has many advantages over bulk packaging. Provided a suitable foil is used, tablets and suppositories may be protected against deterioration to a degree that is impossible when they are rattling about in a half-filled bottle. Whether real or imaginary, the enhanced hygienic appearance appeals to many patients. Whether it is possible to use that style of packaging in hospitals in Britain without making the cost of the final product prohibitive is a matter for examination. So far no machine of the kind small enough to be of interest to hospital pharmacists has appeared on the British market. The one described by Signor Pirani was specially made for his hospital. It would seem that, in Britain, a machine for packaging suppositories would be of greater interest than one for tablets. Although dispensed in much smaller quantities than tablets, suppositories are more difficult to dispense elegantly and are more likely to suffer damage due to faulty packaging.

Though much attention has been given to the hygienic aspects of packaging single-dose forms such as tablets, suppositories and injections, it is disappointing to find so little progress in the matter of eye drops. The section heard an

excellent lecture by Professor Munzel, Switzerland, on the pharmaceutics of eye drops, but the problems of dispensing them in a manner that would preclude all risk of re-infection were not dealt with. It remains for some enterprising hospital pharmacist to devise a cheap and effective one-drop dispenser bottle or a means of filling, sealing and sterilising one-dose tubes of a disposable kind. One's first reaction to such a suggestion is that the cost would be prohibitive, and that may prove true. One the other hand, regard must be paid to the risks involved in infecting an eye-especially one that is injured or ulcerated. There have already been sufficient cases of serious post-operative eye infection to emphasise the importance of this problem, at least so far as hospital practice is concerned. The addition of bacteriostats is by no means an adequate solution to the problem, since there remain a number of unresolved incompatibilities, and many micro-organisms are resistant to the commonly available agents.

### Distribution Within Hospitals

A lively discussion developed on the subject of the "Control of the Distribution of Medicaments in Hospitals." The principal speakers were Monsieur Durand, Tours, France, Herr Heuser, Germany, and Dr. Leal, Portugal. Though the rôle of the pharmacist in exercising supervision against errors is much the same in all the countries, there was some differences of emphasis. In Germany, for example, the doctor in charge of each ward decides what stocks shall be kept. It was pointed out that the pharmacist could not be held responsible for the safe custody of drugs once they had left his department, and that the responsibility, therefore, must pass to the appropriate doctor in each That seems to reflect a difference in the general system of administration of hospitals between Britain and the other countries. In most European countries it appears that a principal doctor is directly and solely responsible for his own ward, taking a much more active part in its running than is the case in Britain, where the tradition of the visiting doctor still remains, and the sister is the real chief organiser of the ward. Monsieur Durand spoke of the various possible ways in which drug distribution might be organised. The two extreme cases he quoted are, on the one hand individual prescriptions dispensed daily for each patient, and on the other the issue of stocks of almost every medicament to the ward sister, thus creating a miniature pharmacy in each ward. Monsieur Durand seemed to be pleading for a system approaching that adopted in most British hospitals, where a certain number of drugs are listed as available for issue as stock on the signed order of the sister, and the rest are dispensed only against an individual prescription. The difficulty for the pharmacist is always to

find the reasonable via media between the sisters' understandable wish to have everything ready to hand and the consideration of the patient's safety from error if the selection of the medicament from the medicine cupboard is made hazardous by a multiplicity of names and packs.

Practice varies widely among hospitals in this country, and there are many in which the pharmacist rarely or never sees the original prescription. One wonders whether, in those hospitals, the pharmacist is able to exercise the degree of oversight and influence on prescribing which he might. Where the prescriptions are regularly seen by the pharmacist, instances are uncommon in which alternatives could be suggested or even where names and dosage have been incorrectly entered. The transcribing of the prescription on to a sister's list seems hardly the best way of minimising such errors. Moreover, it seems to reduce the pharmacist to a mere purveyor, the prescription becoming a message from doctor to nurse instead of from doctor to pharmacist. In spite of the inconvenience and extra work that is often involved, it is important to the pharmacist as well as to the patient that he should see the prescriptions.

### Recruitment Problems

The third topic discussed by the section was that of the recruitment and qualifications of hospital pharmacists. Dr. Alfonso da Fonseca, Lisbon, described the history and present system of selection operating in his country. The system is in many ways similar to that described by Professor Louis Perrot, Lyons, France, who referred to hospital pharmacists as the "élite of the profession" and described the rigorous competitive examination which candidates must pass before being considered admissible to the hospital service in France, That system, which was formerly effective only in the main university cities, is now applicable throughout the country. The basic difference between Britain and France in this matter is that, owing to the legal restriction on the opening of pharmacies, there is a constant supply of young pharmacists seeking employment. The ablest of them aim at further qualifications and compete for "internships" in the hospitals. Such posts enable the student or young graduate to earn a living whilst continuing a research for a doctorate. Those young pharmacists provide the main supply of man-power, and they staff the department on a rota basis under the direction of the chief pharmacist.

It is from among them, of course, that future chiefs are selected. Each year there is a competitive examination consisting of written, practical and oral tests in which pharmacology, biochemical and bromatological analysis and pharmaceutics play important parts. Those who pass the examination are deemed admissible to the service as chief pharmacists and when a post falls vacant only those who are 'admissible" may apply. The final selection is again by competitive examination—chiefly oral—and by assessment of personal suitability for the post. As in most countries. salaries in the hospital service are somewhat lower than the earnings to be had in industrial posts or in retail. Nevertheless the academic opportunities and the prestige associated with hospital appointments are such that there is no serious problem of shortage, as there is in Britain (and, according to Miss Agnes Young, in some parts of America.). The shortage of staffs in British hospitals and the virtually complete failure to recruit men to make hospital pharmacy their career present a serious problem, which seems to be completely ignored by the Ministry of Health. One wonders whether a scheme similar to that of France could not be established here by linking up the hospitals and the schools of pharmacy, and by the greater use of students in their post-graduate and immediately succeeding years. A scheme that would enable such students and young pharmacists to conduct research, somewhat as in junior teaching posts, might well attract to the hospital service men of the calibre it sorely needs.

# Onward from Galen

### A CURRENT CAUSERIE

WHILE at Copenhagen recently for the meetings of the International Pharmaceutical Federation, Dr. T. D. Whittet (chief pharmacist, University College Hospital) spent a profitable hour or so at the City's Pharmaceutical-Medical Museum. One of his "discoveries" was a London print, "The Mourning Apothecary," by W. Holland, 50 Oxford Street, of which the Pharmaceutical Society's library is not fortunate enough to possess a copy. It shows a weeping figure over a tombstone, bearing the words:

Sacred to the Memory of Kate Jones a wealthy spinster aged forty-four,

Who'd many aches and fancied many more, Knolling her friends to the grave with Churchyard cough. Long hung she on Death's nose, till one March morn, There came a cold East wind and blew her off, Leaving her Potticary quite forlorn." Obit 1801. Aged 80.

THE example of self-experimentation given in "A Pharmacist's Anthology" (C. & D., September 17, p. 342) brought to mind another medical man who acted as his own "guinea pig." In the British Medical Journal, 1879. ii. 483, a correspondent, who stated that some years previously he had taken tincture of gelsemium for persistent neuralgia, described his attempts to discover how much of the fresh tincture could be taken before the primary symptoms of overdosage appeared. On Monday and Tuesday he took 40 and 60 minims without effect. On Wednesday 90 minims produced extreme giddiness and weakness of the limbs. Those symptoms quickly passed off, and there was no nausea or other effect. The pulse was weak, but normal. On Thursday a dose of 120 minims produced giddiness in much milder form, but accommodation of the eyes for distant objects required a "distinct voluntary effort." Taking 150 minims on Friday, the subject found that the more marked physiological symptoms disappeared, but suffered severe frontal headache, diarrhœa, and general lassitude. On Saturday and Sunday doses of 3 drachms and 200 minims were taken. "The diarrhœa was so persistent and prostrating that I must stop at 200 minims. I felt great depression and a severe frontal headache. The pulse was still normal, but weak." In his conclusions the writer referred to a case in which 75 minims of the tincture had proved fatal, and continued "The system may learn to tolerate gelsemium, as it may opium, if it be gradually inured to it. I feel convinced that I could have taken as much as half an ounce of tincture, had it not been for the extreme diarrhæa it brought on." The initials A.C.D. at the foot of the letter were those of Arthur Conan Doyle, then unqualified and acting as a locum at Birmingham during the long vacation. Had there been a fatal outcome to the young man's experiments, the world would never have heard of that inveterate and intrepid experimenter, Sherlock Holmes.

### ECHOES OF THE PAST

# AN INVETERATE COUGH

From "Primitive Physick: or, an Easy and Natural Method of Curing Most Diseases" by John Wesley. London, 1772

260. Wash the Head in cold Water, every Morning:

261. Or, use the cold Bath.—It feldom fails: 262. Or, take a Pint of Decoction of Onions, Morning and Evening:

263. Or, a Spoonful of Juice of *Onions*:
264. Or, peel and flice a large *Turnip*, fpread *coarfe Sugar* between the Slices, and let it ftand in a Difh till all the Juice drains down. Take a Spoonful of this whenever you cough:

265. Or, mix the Juice of boil'd Turnips with fine powder'd Sugar-candy, till it is a kind of Syrup. Swallow a little

of it Drop by Drop from Time to Time:

The centenary of the first legislation controlling standards of purity in food has been celebrated by an international conference in London, September 20-23.

# SOME CONTRIBUTIONS OF PHARMACY TO PURE FOOD AND DRUGS

T. D. WHITTET, B.Sc., Ph.D., F.P.S., F.R.I.C., D.B.A.

HE holding of a Pure Food Centenary International Conference, which took place in London, September 20-23, seems an appropriate occasion for reviewing the part which apothecaries and pharmacists have played in the development of methods of control of the purity of

foods and drugs.

The "garbling" of spices and drugs, first entrusted (from certainly as early as the twelfth century) to the Guild of Pepperers, probably represents the earliest example in Britain of a quality control of edible merchandise. Filby, who has described the garblers as the first guardians of the public food and health, states that the word "garble" comes from the Arabic gharbala, to sift or select. Words of similar meaning are the Italian garbellare and the Spanish garbillare used in respect of corn sifting. The practice and term were probably brought to this country by traders from the East. It here refers to the inspection and removal of impurities and adulterations from spices and similar articles, not from corn.

Trease<sup>2</sup> has stated that the pepperers and the spicers dealt in the same commodities, known as "spicery," the former being mainly wholesalers and the latter retailers. "Spicery" included many substances that today would be classed as groceries—sugar, rice, condiments, wax—as well as drugs and spices. The "ordinances of the Pepperers of Sope-Lane," given in "Memorials of London in the XIII—XV centuries," laid down strict rules to prevent the adulteration of drugs and "spicery" and to ensure that true weights were used. In 1328 the pepperers became the first official custodians of the King's Beam, and controlled the regulation of weights and measures in the City. That duty later

passed to the grocers.4

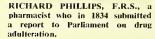
On the dissolution of their guilds, ruined by the forced loans extorted by Edward III for his military campaigns, the pepperers and spicers formed the Fraternity of St. Anthony, which in 1373 became the Grocers' Company. The apothecaries were for many years a specialised section of that company. They were granted independence by Charter of James I in 1617, and the duty of garbling passed finally to the apothecaries. In Scotland, a Charter granted in 1599 by James VI (James I of England) to the surgeon Peter Lowe and the apothecary William Spang empowering them to form the Faculty of Physicians and Surgeons of Glasgow gave the guild authority to inspect drugs. Similar powers were granted to the Edinburgh Guild of Surgeons and Apothecaries in 1621.<sup>5</sup>

### A Pure Drugs Act in Ireland

McWalters records that the apothecaries of Dublin held a meeting in 1751 to arrange for the visitation of drug shops to inspect drugs and destroy adulterated ones. Later the Dublin Guild actively enforced a Pure Drugs Act, under which in 1755 Thomas Wright and Luke Murphy were prosecuted for selling adulterated senna, the former being found guilty. In the same year a conference was held with the College of Physicians to prevent abuses through the adulteration of drugs; and a further general meeting of all the apothecaries of Ireland was called in 1818 to consider "the welfare of the profession and the promotion of the public health." For those purposes a committee was formed of seven members of the Dublin Apothecaries' Hall and some other apothecaries.

The present writer discovered recently that a Guild of Spicers existed in Newcastle-on-Tyne<sup>7</sup> and that there were several apothecaries' guilds in provincial cities in England and Ireland generally associated with one or more other trades or professions. In other cities the apothecaries were members of a general merchants' guild. No doubt the officials of those guilds exercised similar powers over the purity of drugs and merchandise. For example, the oath of the searchers of the York Merchant Adventurers' Guild, of which the apothecaries were important members, in 1603 included a clause regarding the inspection of goods for short weight and other faults,<sup>8</sup> and in 1723 they applied for permission to search apothecaries' and druggists' shops for adulterated drugs.<sup>9</sup> The Mercers' Guild of St. Albans, which included the apothecaries, had flesh and fish tasters, leather







W. T. BRANDE, F.R.S., "chemical operator" and one-time Master of the Society of Apothecaries of London.

sealers and viewers of the market whose duty it was to see that all food offered for sale was wholesome. <sup>10</sup> In the minute book of the Chester Guild of Mercers, Ironmongers, Grocers and Apothecaries appears an item of the payment of a porter for carrying the City weights from shop to shop for checking everyone's weights. <sup>11</sup>

The development of organic and analytical chemistry, to which apothecaries and pharmacists contributed so much, rendered it possible to detect adulteration much more readily. Urdang<sup>12</sup> and Kremers and Urdang<sup>13</sup> give many examples of the work of members of the pharmaceutical profession in those fields. The great Swedish apothecary, K. W. Scheele, isolated a phenomenal number of organic compounds, and the versatile German apothecary, M. H. Klaproth, also prepared many. Another German, Tobias Lowitz, who became the Russian Court Apothecary, isolated dextrose from honey in 1792, and Margraaf discovered the presence of sugar in sugar beet in 1747. The French pharmacist, J. L. Proust, discovered mannitol in 1806 and leucine in 1819. Arthur Meyer did fundamental work on plant starch. Guignard investigated diastases and glycosides. Braconnot, owner of a Strasbourg pharmacy, discovered pectin and dextrin. Musculus, first a French military pharmacist and later a pharmacy proprietor, showed that starch can be hydrolysed into dextrin and maltose and was the

# THE CHEMIST AND DRUGGIST September 24, 1960

first to produce crystalline soluble starch. Of ten early chemists who made important contributions to the study of milk, no fewer than six-five Frenchmen and a Swede (Geoffroy, Baume, Rouelle, Parmentier, Vauquelin and Scheele), were stated by Lieben (quoted by Kremers and Urdang<sup>13</sup>) to be pharmacists.

W. T. Brande, F.R.S. (chemical operator and later Master of the Society of Apothecaries of London), was the first to characterise albumen and received the Copley medal of the Royal Society for his work "On the State and Quality of Alcohol in Fermented Liquids." Emile Bourquelot carried out important work on enzymes and discovered the maltase

action of pancreatic juice; he coined the name "maltase."

In analytical chemistry, too, apothecaries and pharmacists made outstanding contributions. Nicaise Le Febure introduced the thermometer into chemistry and Ernst Beckmann invented the special highly sensitive thermometer known by his name and still used. He also invented apparatus for determining freezing and boiling points-criteria of the greatest importance in assessing the purity of compounds. Antoine Baume invented the improved hydrometer that bears his name; Antoine Cadet de Vaux introduced the galactometer14; and C. F. Mohr invented the specific gravity bottle and Mohr burette. He has been called the father of volumetric analysis.13

The French apothicaire, Nicolas Lemery, who has been described as the founder of phytochemistry, was one of the earliest to undertake the analysis of vegetable drugs. Another apothecary who was an early worker in the field was the German, Caspar Neumann<sup>15</sup>. Among the substances he examined for adulterants were sugar, tea, beers and spirits.

# "Europe's Greatest Analyst"

M. H. Klaproth, already mentioned, was described by Berzelius as the greatest analyst in Europe; he taught chemists to pay attention to contamination of substances by impurities picked up from apparatus. He devised methods of purifying substances for reagents, and is credited with being the first to dry precipitates before weighing<sup>16</sup>. Almost contemporary with him was L. N. Vauquelin, who isolated lecithin and several plant acids. Vauquelin's pupil, M. J. B. Orfila, is described by Weeks<sup>17</sup> as the founder of modern toxicology. Professor of toxicology, medicinal chemistry and forensic chemistry, Paris, he wrote in 1818 a "Popular Treatise on the Remedies to be Employed in Cases of Poisoning and Apparent Death." Margraaf, besides his work in organic chemistry, was the first to use the silver nitrate reagent for the quantitative determination of salt.

Other apothecaries or pharmacists whose names are remembered in well-known tests include Mayer (alkaloids); Fehling (reducing sugars); Gerhardt (acetoacetic acid); Millon (proteins); Tanret (albumen) and Pettenkofer (bile salts).

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# (To be continued)

# Overleaf-The Chemist and Druggist Guide Christmas Goods

ON the next page begins one of the most comprehensive reviews in recent years by THE CHEMIST AND DRUGGIST of special packs produced by manufacturers for the Christmas market. More than 120 are illustrated. They number about one-third of those received, and the criteria generally followed in selection were that the pack should contain either new products or new combinations of products, or should be special packagings for seasonal purposes of established products. On the principle that "pictures speak louder than words," captions have been kept to a minimum. As, with few exceptions, the manufacturers whose products are illustrated are represented in The Chemist AND DRUGGIST Quarterly Price List, each such caption is coded to enable the full name and address of the manufacturer or distributor to be looked up in the key published in the C. & D. Quarterly Price List.

# The C. & D. Guide to Christmas Gifts

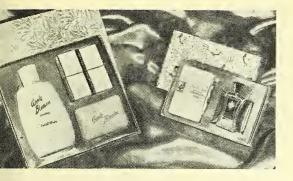


(Guide to illustrations is on facing page)

- 1. The new Voltage range: At left, perfume; top centre, skin perfume concentrate; top right, drum of dusting powder. In black and gold packs. (385 DG.)
- 2. A silver, blue and gold Electrique casket containing a perfume phial, Cologne, soap and

- 4. In colourful foil-covered coffrets, at left, apple blossom talcum (in squeeze pack), four bath cubes, toilet soap; at right, Mitcham lavender soap and perfume. (994 P&M.)
- 5. Two of the large range of White Fire series of packs; At left, tale and hand lotion; at right, perfume, soap and bath cubes. The packs are white, gold and red. (544 Grossmith.)
- 6. A three-tiered pagoda of coloured tablets of guest soap bound with coloured ribbon, (194 Bronnley.)
- 7. Christmas "candle" in red and gold containing the Ardena skin tonic, cleansing and Velva creams shown. (60 Arden.)
- 8. Bath duet: A decorated transparent container with Blue Grass hand and body lotion. (60 Arden.)

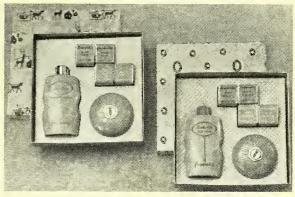
- 10. A "Christmas-card" novelty pack containing six sachets of Silvikrin liquid shampoo. On the front is a Father Christmas whose red robe provides a colourful contrast against a pale blue background. (303 County.)
- 11. At left, a distinctive flocked black and gold presentation box of six tablets of "Rhapsody in Black" soap; at right, "Wild Lavender" confiret containing talcum powder, perfume, and three bath cubes. (338 Cussons.)
- 12. "Blue Haze" (blue and gold) coffret containing waisted puffer pack of tale, and soap and four bath cubes; "Pink Orchid" (pink and gold) coffret of turtle oil hand cream and soap and four bath cubes. (963 PBP.)
- 13. Red and gold "candle packs" containing Midnight and Elation skin perfumes, or Mid-











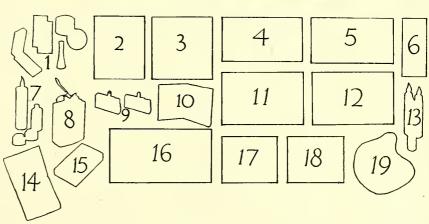






night skin perfume and bath essence; or Elation skin perfume and bath essence, (385 DG.)

- 14. Moonflower skin perfume and tale in gay gift pack of yellow, pink and blue, with tuck-in closure, (665 JS.)
- 15. "Windowed" Californian Poppy coffret in scarlet and white containing Flexi-puff pack of talcum, and three "Pak-a-soaps" in red, white and green. Another similar coffret contains Californian Poppy toilet water and two tablets of soap (in red and in white). (677 JK.)
- 16. Two of the Hartnell In Love range of coffrets. The first contains hand lotion and tale (in plastic puffer packs) and the second holds talcum powder, soap and three bath cubes. Both are in pink boxes with gold embossed title and Royal Warrant appointment, (544 Grossmith.)
- 17. The simple but effective gift pack trio of perfumes by Lucien Lelong. (675 SJ.)
- 18. Covered in embossed foil with an heraldic design in gay colours, the sandalwood coffret shown is typical of the Morny gift range. It holds a plastic beaker of bath salts crystals, bath



soap, and talcum powder in plastic container, and is also available in two other Morny fragrances. (862 Morny.)

19. One of the seven Guerlain coffrets, It holds taleum powder, soap and bath essence, (548 Guerlain).







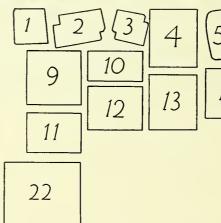


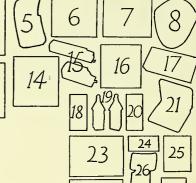














1. A new 4711 Sir coffret containing after-shave,

Sirfix hair cream and 4711 soap. (1113 S&B.)

2 and 3. Coffrets from the Potter & Moore men's series showing different decorative boxes. No. 2 contains hair cream, after-shave and shaving soap; No. 3, brilliantine and shaving soap. (994 P&M.)

4. Gift set of small after-shave, brilliantine, and

tube of lather shave cream, by Lentheric, Ltd., 17
Old Bond Street, London, W.1.
5. A "traveller de luxe" set: A one-piece
razor; a "dispenser" of ten Blue Gillette extra blades; a shaving brush and a tube of shaving cream; all in a cowhide case, (514 Gillette.)

6. One of the Barnet fitted cases for men con-

taining hair brush, mirror, comb and nail file, in two-colour combinations. (617 Holloway.)

7. Gift set containing hairbrush, clothes brush,

nailbrush and comb. (1167 Spa.)

8. An "Olympic" toilet set containing a hai brush, comb, nailbrush and clothes brush. (50 Halex.)

9. One of the larger coffrets of the new In perial Leather series. It has a "military" mot in striking colours and contains talcum powde after-shave lotion, shaving bowl and three tolk soaps. (338 Cussons.)

10. One of the gift packs of the recently introduced H.E. series: pre-electric shave lotion duced H.E. series: pre-electric shave foliol after-bath talcum powder and body rub in window gift-pack. (1063 Rimmel.)

11. Shower soap for men "strung" on rope in "wood-grain" box. (194 Bronnley.)

12. Typical of the Yardley series for men is thi

coffret containing after-shave, eau de Cologne and bowl of shaving soap. (1355 Yardley.)



more, white Penetron military brush. (693 Kent.)

16. The Freshman "big 3" pack of talc (in pouffer pack), after-shave and concentrated sham-poo. (876 MP.)

17. Pre-electric shave and after-shave lotions in

plastic bottles, and large tin of talcum powder. One of the "mainly for men" gift series. (341 Cyclax.)

18. One of the Kent series of shaving brushes. (693 Kent.)

19. Old Spice "smooth shave" and after-shave tale in "lantern" packs. (1131 Shulton.)

20. Acctate lantern pack containing chubby stick of shaving seem (214 Cer

of shaving soap, (331 C of C.)

21. The new Pifco "Prince" de luxe shaver in presentation case. Spare cutting head and foll sieve are provided. (983 Pifco.)

22. Max Factor's Christmas packs for men:
Busy Man's Bar (after-shave, hair cream,
Cologne); "Just for Men" book (after-shave
lotion, hair cream, shampoo, and Cologne); twopiece shaving set (lather shaving cream and aftershave); box of lather shaving cream, after-shave and hair cream.

23. One of the gift packs of the new Stag

toiletries for men. (1053 Rexall.)

24. Tru-Gel in seasonal wrapping. (634 GH.)
25. Silkashave shaving soap in decorated plastic bowl. (Dubarry Perfumery Co., Ltd., P.O. Box 184, Hove, 4, Sussex.)

26. Two wrapped and carded Sword-Edge dispensers in display box of twelve. (1339 Wilkin-

son.)
27. One of the Tabac coffrets containing aftercedar wood shaving bowl. (963 PBP.)

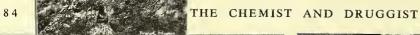
28. One of the series of four Pinaud coffrets. It holds tonic hair lotion, lather shaving cream

(tube) and after-shave. (984 Pinaud.)

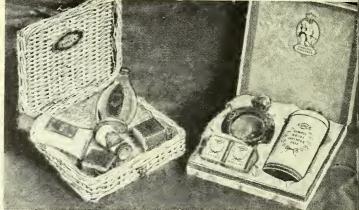












- 1. Famous models photographed in colour against scenic backgrounds decorate the Field's range of gift boxes. Each of the three shown contains soap, talc, and three bath cubes. (462 Field.)
- 2. At left, a wicker casket of 4711 Tosca hand cream, Cologne, stick Cologne, and two bath cubcs; at right, 4711 Rhine lavender coffret holding lavender perfume, tale and two bath cubes. (1113 S & B.)
- 3. At left, "Love-in-a-Mist" heart-shaped coffret holding six bath cubes and one heart-shaped tablet of soap; at right, "Father Christmas" box of three tablets of Imperial Leather bath soap (also available is similar box of three toilet-size tablets of soap), (338 Cussons.)
- 4. At left, a "pyramid" pack holding three miniature-size bottles of champagne bubble bath, each of a different fragrance; centre, "bouquet of flowers" holding seven bath salts tablets; at right, sixbottle gift pack of bubble bath. (669 Sorelle.)
- 5. One of the "Ashes" gift boxes, holding Ashes of Roses tale and three bath cubes each of Ashes of Roses and Ashes of Violets fragrances. (150 Bourjois.)
- 6. One of the Tweed gift sets. It holds perfume, purse flaçon, 4-oz. bouquet, small tale, "Iceberg" (stick Cologne), large bath oil, bath soap and four bath cubes. (Lentheric, Ltd., 17 Old Bond Street, London, W.1.)
- 7. "Twin set" gold and white striped box containing plastic squeeze bottles of talcum powder and hand cream in matching perfume of which there is a choice of three. (194 Bronnley.)
- 8. "Harmonics" gift set of perfumed hand lotion and perfumed stick Cologne to match. (532 Goya.)
- 9. The coffret shown here (containing toilet soap, tale and Cologne in "Le Numéro Cinq" fragrance) is one of a range. (Molyneux et in " Cie. (Designs and Perfumes), Ltd., 63 Grosvenor Street, London, W.1.)
- 10. "Lily pond" and "water lily" motifs on Bathjoys packs, holding twelve and six respectively. (1037 Reckitt.)
- 11. One of the new designs for French of London's Christmas packs is this ten-sided carton containing the four French shampoos (lemon cream, rum, "plus" egg and medicated) together with "Spray Set" lacquer in an aerosol bottle. (481 F & S.)
- 12. Satin-lined, pink and white striped presentation case of Omy soap, bath essence and toilet water. (331 C of C.)
- 13. A transparent plastic "palette" in either Otto of Roses or Otto of Jasmine fragrance, containing two toilet soaps, six bath cubes, and a bottle of perfumed bubble bath. (1070 Windsor.)
- 14. Gala perfume set of puffer tale, hand lotion, soap and two bath cubes. The design on the box is derived from the rose symbol on the existing Gala pack. The gift set is available in three fragrances, (876 MP.)
- 15. Delayelle Vue Pacs: At left, five bath cubes and four individual soaps; centre, four individual soaps; at right, six bath cubes and a bath soap. (994 PM.)
- 16. Silk-lined coffret holding puffer talcum, two tablets of soap, handbag perfume, bubbling bath oil, and bath salts. Available in three fragrances. (Dubarry Perfumery Co., Ltd., P.O. Box 184, Hove, 4, Sussex.)
- 17. One of the two Pond's gift packs. The one illustrated contains one jar Pond's moisturising foundation cream, jar of cold cream, and bottle of skin freshener, (256 CPL.)
- 18. "A cute and gentle lion with bright blue eyes" comes with an Hypnotique perfume phial, (813 MF.)
- 19. Christmas lantern packs with coloured tops, holding six assorted, non-oily bath "gems" (at left) and three guest soaps, (331 C of C.)
- 20. A small, red-suedc covered box containing three miniature Dana perfumes: Tabu, 20 Carats and Emir. (350 Dana.)
- 21. One of the Roman Holiday range of gift scts, containing large box of dusting powder and a bottle of Cologne. (150 Bourjois.)
- 22. At left, individually-cartoned Savilla perfumes on gift cards; at right, coffret containing puffer talcum, two bath cubes, and a bottle of hand cream. (1105 Saville.)































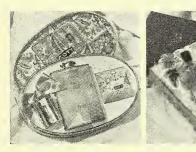






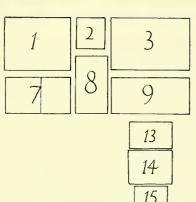


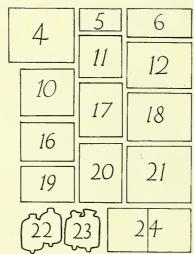






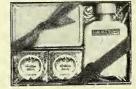










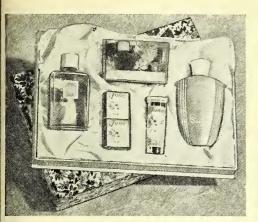


- 1. Nivea gift coffrets and a jar of Nivea créme with decorative ribbon. (1155 Smith & Nephew.)
- 2. Slim, scalloped "Petite" Stratton compact depicts a floral bouquet. (735 Laughton.)
- 3. At left and centre, two 4711 Tosca gift boxes, at right, a 4711 pack showing new shape of perfume bottle. (1113 S&B.)
- 4. June fragrance coffret containing Top to Toe perfume, bath cubes, perfume stick, puffer pack tale, and acetate "inner" pack of perfume. (1105 Saville.)
- 5. Box of Kleenex tissues in plastic cover embossed with leaf quilt design, and wrapped in coloured polythene. (702 KC.)
- 6. Eight assorted bath cubes in sleigh, (150 Bourjois.)
- 7. An eye-catching oval gift box (left) of perfume, soap and talc; and, at right, on satin, toilet water with spray. (301 Coty.)
- 8. Sachet and bottles of "champagne" shampoo. (1058 Riché,)
- 9. Two baby gift boxes, in pink or blue, of five and three pieces, (672 Johnson.)

- 10. Pink or blue Pears baby pack containing two tins of baby powder and a rattle. (509 Gibbs.)
- 11. Chanel No. 5 purse-flaçon refill with gilt funnel for ease of filling. (247 Chanel.)
- 12. "Beauty box" of Nulon hand cream, Bathjoy "White Velvet" tale and four Bathjoys bath cubes. (1037 Reckitt.)
- 13, 14, 15. Three Dubarry packs. 13 is "Dancing Time" bath set (talcum, bath essence capsules, "water lily" soaps, bath salts tablets); 14, talc and bath salts tablets; 15, talc, bath salts tablets and soap. (Dubarry Perfumery Co., Ltd., P.O. Box 184, Hove, 4, Sussex.)
- 16. Christmas sleeves for Vacco flask-packs, and showcard. (1372 Vacco.)
- 17. Delage perfumes in novelty packs: Christmas cracker, Chinese lantern and Christmas "candle." (286 Colomb.)
- 18. Wicker floral basket of seven bath salts tablets and a wicker "needlework" basket of twenty-four tablets, (669 Sorelle.)
- 19. One of the five new seasonal packs for

Headliners. (Raywarp Textiles, Ltd., Alfred Street North, Nottingham.)

- 20. Brownie 44a gift set. Other Brownie gift sets are of the 127 and twin 20 cameras. (711 Kodak.)
- 21. Araby toilet soap gift packs. (121 Bibby.)
- 22. Suba-Scal "Streamline" and the new Suba-Scal "Gaywarm" hot-water bottles (both in colourful packaging not shown here). (479 WF.)
- 23. "Deep Sleep" and Cosimax hot-water bottles (packed in cartons not shown here). (Dunlop Rubber Co., Ltd., P.O. Box 151, Cambridge Street, Manchester, 1.)
- 24. At left, Hardy Amies' men's gift box of Cologne, soap and after-shave; at right, Fun tale, perfume and Cologne. (Hardy Amies, Ltd., 14 Savile Row, London, W.I.)











































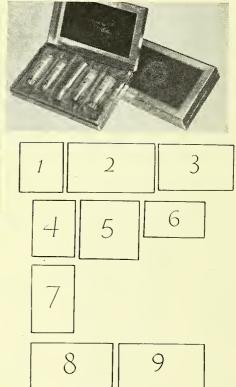
- 1. The Chanel Christmas coffret in plain black and white holding, on satin, Chanel No. 5 perfume and matching toilet water. Available in two sizes, (247 Chanel.)
- 2. At left, a wooden box containing after-shave, pre-shave and toilet water for men; at right, perfume, toilet powder, "Suc de Lys" hand lotion, and
- two toilet soaps in red and gold casket. (468 F.)

  3. An English lavender gift set holding perfume, two bath salts tablets, and tale. (1355 Yardley.)

  4. Apple blossom dusting powder (in recessed lid), soap and three bath cubes, in floral silver-coloured box. (596 HR.)
- 5. A novelty booklets casket of four perfumes (Magie, Tresor, Envol, Fléche d'Or). One of a series
- of five novelty packs. (726 Lancome.)

  6. A five-piece lipstick "wardrobe" holding the new "gold-tone" Futurama case and four refills. Gold and black case with crimson satin liner, (1052
- Revlon.)
  7. Three toilet-size tablets of Pears transparent soap. Exterior and interior illustrations are shown here. On the inside is a calendar attached to the lid which may be clipped off and hung on a wall.
- (509 Gibbs.)

  8. "Story-book" novelty pack of perfume, and



an acctate pack holding six sachets of bubble bath.

(48 AP.)

9. At left, blue hyacinth pack of talc, toilet water, soap (two) and bath cubes (six), (338 Cussons); at right pack of tale, soap, bath perfume, cream perfume and three bath salts tablets (available in four fragrances). (994 P&M.)





# CELBENIN BRL 1241

REGD. TRADE MARK

# effective against all resistant staphylococci

BEECHAM RESEARCH LABORATORIES have pleasure in announcing Celbenin—the first non-toxic antibiotic effective against all resistant staphylococci.

Celbenin is bactericidal to all strains of staphylococci irrespective of their resistance to penicillin or any other antibiotic. Clinical results show that the problem of resistant staphylococcal infection can be overcome with Celbenin.

- \* effective against all resistant staphylococci
- \* non-toxic
- \* bactericidal in action
- \* no cross-resistance with other antibiotics
- \* resistance unlikely to develop

Celbenin is chemically: Sodium 6—(2,6—dimethoxybenzamido)penicillanate monohydrate.

#### ADMINISTRATION

Celbenin is given by intramuscular injection.

#### AVAILABILITY

Celbenin is presented as 1 gramme vials, in cartons of 5, 25, and 100.

# CELBENIN BRL 1241

REGD. TRADE MARK

DEVELOPED BY

#### BEECHAM RESEARCH LABORATORIES LTD





#### CHANGE IN DISTRIBUTION

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With sincere pleasure Fassett & Johnson Ltd.
wish to advise their friends that they
have been appointed Sole Distributors in
the United Kingdom and Republic
of Ireland of the complete range
of perfumes and cosmetics of
Parfums Caron, Paris, with effect
from October 9th, 1960.
For many years Parfums Caron have
created some of the most rare and
exquisite perfumes of France, recognised
for their perfection by discriminating
people throughout the world.

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FASSETT & JOHNSON Ltd. 86 CLERKENWELL ROAD, LONDON, E.C.1 6-7 CROW STREET, DUBLIN, EIRE

## Pharmaceutical Society of Northern Ireland

MONTHLY MEETING OF COUNCIL

LETTER from the Northern Ireland Ministry of Education expressing agreement to proposals from the Council of the Pharmaceutical Society of Northern Ireland for upgrading the study course for the Society's Final Part II examination to major award status was read at the monthly meeting of the Council held in Belfast on September 15. The new status is to be effective from the beginning of the 1960-61 academic session.

The Ministry stated in the letter that they would be prepared to approve the proposals to make major awards to assist students to follow the course when an aggregate of not less than 55 per cent. had been obtained by the candidate in all three Part I subjects (physics, chemistry and biology) of the Final Part I examination, taken at one and

the same occasion.

Of students who at present held minor awards for Part II of the course, those who qualified for awards on the basis of an aggregate of 55 per cent. in all three Part I subjects taken at one and the same occasion automatically become eligible for major awards with effect from the date of introduction of the new arrangements; and those not so qualified retained their existing—minor—awards for the normal period. Subject to that transitional arrangement, minor awards would cease to be available for Part II of the course.

The Council members expressed pleasure at the contents of the letter.

At the beginning of the meeting, Mr. J. Caldwell (president), who was in the chair, welcomed members back after their summer recess. Apologies for absence were received from Professor O. L. Wade and Messrs, S. E. Campbell, H. F. Moore, W. C. Tate, H. W. Gamble and A. Templeton.

THE PRESIDENT said he had been distressed to hear of the death of Mr. Hugh Crossin, a former member of the Council, from which he had retired because of ill health (see C. & D., September 17, p. 337). The members stood in silence in memory of Mr. Crossin, Mr. W. Gorman (secretary) reported that he had written to Mrs. Crossin to express the Council's sympathy.

Mr. Gorman read a letter from the honorary secretary of the Northern Ireland Optical Society thanking the Society for the use of its rooms and enclosing a cheque for £5 5s.

towards the Society's Benevolent Fund.

#### Apothecaries' v. Metric Systems

The secretary also read a letter from the Ministry of Health and Local Government relating to proposed legislation to replace the apothecaries' system by the metric system. The Ministry said it had been noted that the Council were of the opinion that Northern Ireland should be included within the scope of such legislation. The Council's question about some provision for approximate equivalents had been passed to the Ministry of Commerce and that department had in turn been in touch with the Board of Trade, It was thought that the point could best be met by enclosing a copy of a letter received from the Ministry of Commerce. That letter disclosed that the same point had been brought to the notice of the Board from another pharmaceutical source in Britain. On the suggestion of MR. G. H. CAMP-BELL, it was agreed that another letter should be sent to the Ministry asking for further clarification.

The Council considered the case of a student who, in December 1959, had been recommended by the board of examiners to undergo a course of instruction before again presenting himself for examination. The Council had suspended the recommendation for six months and the student again attempted the examination in June. The board then recommended that the student should attend a full-time course and the Council accepted that at their previous

meeting. The student wrote to say that he did not think that he would be able to manage financially. The Council, however, confirmed their decision.

A recommendation from Mr. W. S. THORNTON, who presented a report of the House Committee, that a tender should be accepted for the redecoration of the Society's premises, was adopted. Seconding the recommendation, Mr. BOYD congratulated the Committee on their progress.

#### Financial Situation

The Finance Committee's report, presented by MR. J. GORDON, contained a recommendation for the payment of accounts totalling £559 10s. Presenting his financial report for the year ended July 31, Mr. R. M. WATSON (honorary treasurer) pointed out that the "year" had been an elevenmonth period, the end of the financial year having been changed from August 31 to July 31. The previous year he had not been so happy to present the report because he had had to tell of a substantial deficit. This year the deficit, although expected to have been considerable, was quite small-£43 16s. 3d. against £642 last year. That was satisfactory and should give the Council great confidence for the coming year. Retention fees were £2,597 against £2,583; examination fees totalled £1,533, compared with £1,594. There was not a great difference in this year's income compared with that of last year. He was sure that sufficient money would come along to meet the needs and the increase in the amount from retention fees should enable the Council to meet all demands.

The adoption of the report was seconded by Mr. Gordon,

and agreed.

Messrs. H. H. Cowzer, G. E. McIlhagger and R. Gibson were re-elected to the Statutory Committee and Messrs. N. C. Cooper and M. C. Mooney were appointed new members.

The date of the Society's annual meeting was agreed: October 3, at 7.45 p.m.

The secretary reported that Messrs. Boyd, Ewart, Gamble, Gordon. Quinn and Shinner (retiring members of Council) had offered themselves for re-election, with the exception of Mr. Quinn. A new candidate, Mr. T. Hunter, of the associates' section of Ulster Chemists' Association, had been nominated. There were, therefore, six candidates for six seats and an election would not be necessary.

THE PRESIDENT reported that the Committee appointed to nominate officers for next year had agreed that Mr. Templeton (vice-president) should be put forward as president, Mr. Thornton as vice-president, and Mr. Watson as

honorary treasurer.

Presenting his report as delegate to the Copenhagen conference of the International Pharmaceutical Federation, MR. CAMPBELL said he appreciated the reception accorded him there. "Excellent did not adequately describe the arrangements," he said. The secretary was instructed to write to the Danish Association expressing the Council's thanks for the arrangements and entertainments.

THE PRESIDENT, reporting on the Newcastle-on-Tyne meeting of the British Pharmaceutical Conference, said it had been very satisfactory and well organised. He had been particularly interested in the discussions on the metric system. MR. McILHAGGER, endorsing the president's comments, said the local committee had done everything possible for the delegates' comfort. The accommodation at the Eustace Percy Hall of Residence had been excellent.

On the suggestion of Mr. CAMPBELL, the secretary was instructed to contact Professor Wade congratulating him on his appointment to a World Health Organisation team visiting India.

The secretary reported that £876 10s, had been received from 135 subscribers to the C. W. Young Fund.

## Pharmaceutical Society of Ireland

#### MONTHLY MEETING OF COUNCIL

A nappeal to all veterinary chemists interested in the operation of the Animal Remedies' Act, 1956, to get in touch with Mr. John P. O'Donnell, Main Street, Charlestown, co. Mayo, was made at a meeting of the Council of the Pharmaceutical Society of Ireland, held in Dublin on September 13. Mr. O'Donnell, who is a member of the Council, was appointed the Council's representative on the Advisory Committee set up by the Department of Agriculture under the Act.

MR. O'DONNELL said he thought that the Act had affected chemists adversely, particularly in regard to counter-prescribing and labelling of animal remedies, and for that reason he would like to have the views of any chemist who had experienced difficulty in the working of it. He particularly had in mind broken bulk: retail pharmacists sold remedies in lesser quantity than was contained in the original manufacturers' pack, because certain formalities had to be complied with in the labelling of those lesser quantities. The function of the Committee was to submit recommendations that would later be embodied by the Minister as rules and regulations under the Act, and he would like to have the co-operation of all interested pharmacists in preparing a list of recommendations for consideration by the Minister.

#### "Far-reaching Changes"

A letter was received from the Department of Health pointing out that serious consideration would have to be given to the Society's new educational proposals, because the suggested changes were far-reaching and required careful study. The meeting decided to send a further memorandum to the Minister, and a request that the Minister should receive a deputation from the Council to discuss the matter,

Mr. Owen D. Leavy (honorary secretary, Dundalk Chemists' Association) wrote stating that following discussions with the Drogheda Chemists' Association, the name of Mr. Kevin Matthews had been forwarded for nomination on the Louth Consultative Health Committee, Mr. Matthews was duly nominated to the Committee, Mr. Leavy thanked the Society for the advice it had given his Association on the precedure to be followed in applying for nomination.

Messrs. T. B. O'Sullivan and D. J. Kennelly were appointed scrutineers for the ballot in the event of a Council election being found necessary in October.

Arising from the report of the Schools Committee, a number of queries were received concerning apprenticeship regulations, and it was stated that no alteration could be made in the existing rules until the new scheme was sanctioned.

MR. KENNELLY stated that the Post-graduate Education Group wished to know if they could continue to use the title "Pharmaceutical Society of Ireland" on their new stationery. The title appeared in big print on the old stationery, with "Post-graduate Education Committee" underneath it in small print, and added that the Group had already obtained the permission of the Council to change the title "honorary secretary" to that of "director."

MR. T. R. MILLER said that the Group were doing good work and were getting remarkable results. They had applicants for their courses from virtually all over the world. However, he thought it undesirable that the Group should be allowed to issue diplomas, because that would tend to reduce the standard of Irish pharmacy to the level of a correspondence course. Either with or without examinations, he was not in favour of issuing such diplomas. While a diploma might be a help to a person seeking a position in local government, the Society should not be asked to allow its name to be used over such diplomas. If necessary he thought members of the Council should meet members of the Group and have a friendly discussion on the matter.

MR, KENNELLY said the Group was a body of responsible people and they had felt that persons attending a course of lectures, as opposed to a postal course, should be presented with certificates. He had informed the Group that the sanction of the Council would be necessary. Mr. M. Power said that as the person who had raised an objection in the first instance to the Group's using the title of the Society in its correspondence he still believed that the title of the Society should not appear on any correspondence, except that emanating from the Council's headquarters. There was only one Pharmaceutical Society of Ireland and no other body should be accorded the honour of having that title on its correspondence. He also believed that the title "director" should not be used by the Group because it carried a certain amount of weight to any layman reading it. The proper title should be "secretary" or ' respondence secretary." The Group could use the title "College of Pharmacy," or any other heading, but not that of "Pharmaceutical Society of Ireland."

#### A Meeting with the Group

MR. M. COSTELLO agreed with Mr. Power, It did not matter what appeared in small print; once "Pharmaceutical Society of Ireland" appeared in the larger type it meant that correspondence was being sent out in the name of the Society dealing with subjects that might not have had the Society's approval, Correspondence bearing the Society's title should be sent only by the registrar who received directions from the Council. The fact that the Society's title was used suggested that such correspondence was official. MR. R. J. POWER said that the Group were doing valuable work and favoured a meeting of members of the Council with them. That was agreed.

MR. COSTELLO reported on his recent visit to Copenhagen where he represented the Council at a meeting of the International Pharmaceutical Federation. He described how the King of Denmark had attended the official opening, and told how he himself had spoken at various meetings and attended the numerous receptions. A signal honour had been conferred on him, and the Council, when he was invited to dinner at the home of the Danish Association's president at which the heads of Danish and American pharmacy were also present. He added that the Irish Ambassador to Denmark had also attended the opening ceremony, and he considered that the prestige of Irish pharmacy as well as of Ireland itself had been raised as a result of being represented at the conference.

MR. J. G. COLEMAN (registrar) said that he had been told at the British Pharmaceutical Conference in Newcastle-on-Tyne that Mr. Costello had spoken effectively at Copenhagen. The president and Mr. G. C. O'Neill paid tribute to the manner in which Mr. Costello had represented the Council at the conference. MR. MILLER said it was essential that the Council should be represented at such gatherings. MR. KENNELLY said that by such attendances the prestige of Irish pharmacy increased in international circles.

The registrar reported on the deaths of John Joseph O'Donnell, M.P.S.I.; Frederick Smith, R.D., and William Herbert Richardson.

The following were nominated for membership: Miss Joan Madden, Cherry Hill, Roscrea, co. Tipperary; Mrs. T. Casey, St. Gabriel's, Ballymote, Sligo; John P. Fehily, 28 South Main Street, Wexford; M. P. McGoldrick, The Corner House, Eyre Square, Galway; J. P. McCormack, Meath Bridge House, Kilcock, co. Kildare; J. D. Dillon, 117 Holloway Road, London, N.7; James Haire, Main Street, Graignamanagh, co. Kilkenny; Miss P. McGuinness, Park Villas, Dundalk, co. Louth; John Kennedy, Main Street, Portlaoighse.

(To be concluded)

# C. & D. Quarterly Price List, September 1

#### THIS WEEK'S CHANGES ARE GIVEN SEPARATELY AT END

'	A IMID AAEEK	3 6	HANG	E3 MINE	GIVEN SEPARAIELI AI END
	A. & P. (104 BP) infants' powders	15 0	3 9 1	I 11	20 gm 128 0 16 0 TS 0.5% 5 gm 64 0 8 0 TS
	Adcortyl-A (1176 Squibb) ointment 50 gm	31 9e			20 gm 204 0 25 6 TS
	with Graneodin 50 gm Aldactone (1121 Searle)	35 6e			little liver pills 36 14 5 3 7½ 1 11
	tablets 100 mgm 20	61 86			Cassandra (Weil) (960 ADP)
	Aldis (884 NB) beaded screen	289 10e			eau parfumee . 2 oz 080 9 6ea 4 7½ea 19 6 4 oz 081 16 6ea 8 0½ea 33 6
	"Square 40" "Square 50"	• • • • • • • • • • • • • • • • • • • •	119		8 oz 082 26 3ea 12 9½ea 52 6 16 oz 083 46 3ea 22 6ea 92 6
	Aldocorten (262 CIBA) ampoules 1 mil	27 4e	ea 41	OTS	perfume handbag 017 7 9ea 3 9ea 16 0 1 oz 016 14 9ea 7 2ea 30 0
	Allercur (1107 SAGB) (distributors 973 Pharmethic				½ oz 015 26 3ea 12 9½ea <b>53 0</b> 1 oz 014 42 0ea 20 6ea <b>85 0</b>
	tablets 20 mgm 20 Amphetone (1348 JW) 10 oz	60 0		3 8 †s7 	2 oz 013 75 0ea 36 6ea 150 0 handbag coffret SE 15 9ea 7 8ea 32 0
	20 oz 40 oz	108 0		••	"Secret de Venus" bath oil 2 0 9ea 10 1ea 42 0
	Andre Philippe (48 AP)	28 66	ea	• •	1 oz 061 37 6ea 18 3ea <b>75 0</b> 2 oz 062 67 6ea 32 11ea 135 <b>0</b>
	eau de cologne/lavender 18 men's roll-on deodorant 104	$\frac{9}{16} \frac{0}{10}$		16· 26	4 oz 063 127 6ea 62 2ea 255 0 bobine single 060 4 3ea 2 0 dea 8 6
	perfume story book XI Angel Touch (256 CPL) tube	18 0 17 4	9 0	3 0 2 9	bobines 12 060 50 0ea 24 $4\frac{1}{2}$ ea 102 0
Delete	bottle	23 8 19 0	11 10	3 9 3 0	Cassells (Dr.) (104 BP) tablets
2000	Antilope (Weil) (960 ADP) eau parfumee . 2 oz 080		ea 4 7lea1		Geelite (315 Crater) 40 9 4 3
	4 oz 081 8 oz 082	16 66	ea 8 0½ea3 ea 12 9½ea5	3 6	electric blanket control 8 9 with neon 10 6
	16 oz 083	46 36	ea 22 6ea 9: ea 3 9ea 1	2 6	Ceetherm (315 Crater) electric blanket control 29 6
	₹ oz 016	14 9	ea 7 2ea 3	0 0	Cephos (104 BP)     15 0     3 9     1 11
	½ oz 015 1 oz 014	42 0	ea 20 6ea 8	5 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	handbag coffret SE	15 96	ea 36 6ea 15 ea 7 8ea 3 ea 8 6ea 3	2 0	doz 60's doz 60's 195 0 48 9 <b>3</b>
	diffusette ½ oz 016D	29 0	ea 14 2ea 5	8 0	$\frac{1000}{2}$ $\frac{1200}{2}$ $\frac{1}{2}$
	refill ½ oz 015R 4 oz 012	135 0	ea 12 8ea <b>5</b> : ea 65 10ea <b>27</b> :	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	de luxe bottle in coffret 1 oz "Secret de Venus" bath oil		ca 43 10ea <b>18</b> ea 10 1ea 4		doz 48's doz 48's  Delete 60
	½ oz 060B 1 oz 061 2 oz 062	37 6	ea 10 1e <b>a 4</b> ea 18 3ea <b>7</b> ea 32 11ea <b>13</b>	5 0	Delete 120 Check (665 JS) cream 271 14 0 3 5 2 0
	4 oz 063 bobine 1 060	127 6	ea $62$ 2ea <b>25</b> ea $0$ $0\frac{1}{2}$ ea	5 0	spray 269 22 8 11 0 <b>3 9</b>
	bobines 12 060  Aramine (837 MSD) 1 mil 12	50 0	ea 24 4½eaı		Delete 5 lb
	Arrid (1003 PP)		ea 2		Chilton (257 Chilton) Sportsman electric shaver 57 6
	roli-on refill	27 0	6 9	3 6	Acculux rechargeable torch 42 0 illuminated magnifier 12 4
	bath oil $\frac{1}{3}$ oz  Bandit (Piguet (1201 Supervite))	13 0	ea 6 6ea <b>2</b>	6 9	angle holder 10 0 Accuflash 54 9
	bath oil ½ oz  Barbevite (1348 JW) 5 oz	$\begin{array}{ccc} 13 & 0 \\ 48 & 0 \end{array}$	ea 6 6ea <b>2</b>		equipment bag for photoflash 8 3 thread counter 6 0
	20 oz 80 oz	15 0	ea	†s1s4A †s1s4A	screen plate 12 6 throat spatula kit with stand 15 0
	Basket of Flowers (1070 Windson			†s1s4A	dental kit with stand 13 6 otoscope 113 4
	Becomel (324 Crookes) elixlr	gross		•	adaptor
	4 oz 8 oz	$\begin{array}{ccc} 26 & 0 \\ 40 & 0 \end{array}$		3 3 5 0	circuit tester 24 0 spy light 28 6
	Becosym (1074 Roche)	360 0		5 0	spare bulb 11 charging adaptor 2 3
	with B12 ampoules 6	$\begin{array}{ccc} 84 & 0 \\ 480 & 0 \end{array}$		0 6	Chinchilla (Weil) (960 ADP)         eau parfumee 2 oz 080       9 6ea 4 $7\frac{1}{2}$ ea19 6
	Beecham's (104 BP)				$egin{array}{cccccccccccccccccccccccccccccccccccc$
	pills	15 0 33 0	8 3	1 11 4 3	16 oz 083 46 3ea 22 6ea <b>92 6</b> perfume handbag 017 7 9ea 3 9ea <b>16 0</b>
	powders	$\begin{array}{ccc} 15 & 0 \\ 31 & 2 \\ 107 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 11 4 0	$\frac{1}{2}$ oz 016 14 9ea 7 2ea 30 0 $\frac{1}{2}$ oz 015 26 3ea 12 9 $\frac{1}{2}$ ea53 0
		doz 60's	s doz 60's	3	1 oz 014 42 0ea 20 6ea <b>85 0</b> 2 oz 013 75 0ea 36 6ea <b>150 0</b>
	tablets	$\begin{array}{ccc} 15 & 0 \\ 31 & 2 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 11 4 0	handbag coffret . SE 15 9ea 7 8ea 32 0 "Secret de Venus" bath oil
	Benerva (1074 Roche) tablets 300 mgm 25	100 0		2 6	1 oz 060B 20 9ea 10 1ea 42 0 1 oz 061 37 6ea 18 3ea 75 0
	100 Better Off (385 DG)	300 <b>0</b>	3	7 6	2 oz 062 67 6ea 32 11ea <b>135 0</b> 4 oz 063 127 6ea 62 2ea <b>255 0</b>
	for the face for the legs	$\begin{array}{ccc} 66 & 0 \\ 54 & 0 \end{array}$		1 0 9 0	bobine slngle 060 4 3ea 2 0½ea <b>8 6</b> bobines 12 060 50 0ea 24 4½ea <b>102 0</b>
	Biotrase (769 LH) 35 gm Blacfrutex (1351 WLU)	45 0		6 0	Colchipirine (292 C) tablets dp 400 227 4 †87
	cough linetus	11 3		1 10	dp 1000 575 4 †s7  Coldrex (976 PS & T) 24 41 8 10 5 <b>5</b> 6
	B-R (1023 Radiol) healing jelly 2 oz	17 5 22 6	-	2 9 3 0	Comba-Curler (888 Newey) 10 3 2 62 1 6 Conotrane (1305 WB)
	Brontyl (769 LH) ampoules 2 mils 5		-	7 6	silicone cream 60 gm 60 0 7 6
	Calypso (Piguet (1201Supervite))		ea 6 6ea <b>2</b>		500 gm 25 0ea <b>37 6</b>
	Cambison (614 Hoechst)	10 0	ou o oca z		Cravens (316 Craven) best barley sugar 5 lb 13 4ea 10 qtr
	(distributors 621 Horlicks) ointment 0.25% 5 gm	40 0	:	5 0 TS	best English mints 5 lb 11 10½ea 9 qtr blackcurrant aniseed 5 lb 14 2ea 10½ qtr

										_				
	blackcurrant pastille	s ½ lb 6 lb	10 19	3 8ea	• •	1	0 qtr 0 qtr	Floidam Tan (900 Norton) 5½ oz	66	0	33	0	11	0
	Blix licorice pastilles	6 lb	16	0ea			10 qtr	3 oz	57	0	28	6	9	6
	glucose lemon barley	4 lb	$\frac{10}{11}$	8ea 10½ea	• • •		10 qtr 9 qtr	5½ oz Formula 21 (104 BP) 7-day	105 81	$\stackrel{0}{7} \dots$	52	6	17 8	6
	menthol and eucalyptus BPC	5 lb	16	5ea		1	0 qtr	Fracas (Piguet (1201 Supervite))	201	7		• •	21	0
Delete	Crookes (324 Crookes)	B-comple:	x elixi	ir all size	es			bath oil ½ oz	13	0ea	6	6ea	26	9
	Cumfy-Socks (1075 R) Cussons (388 Cussons)	• •	15	0	9	1	11	Freshman (876 MP) aftershave	21	0	10	6	3	6
	imperial leather hair		1.	0	6 10	2	6	Gone Tan hairfix	33 15	0	16 7	6	5	6
	Cutipen (327 WC)	5480	$\frac{14}{19}$	0	9 6	3	3	refill	7	6	$\frac{3}{22}$	9	1 7	3
	refill Daranide (837 MSD)	• •	10	6	5 3	1	9	aerosol shampoo	45 17	0	4	6 3	2	6
D 1 1	tablets 50 mgm	100	40	0ea		60	0	sponge-on deodorant	31 13	6	7	9 4½	4	0 6.
Detete	Dascote (1262 UL)	16						talcum	21		10	6		6
	Decadron (837 MSD) tablets enteric coated							Froidex (787 Macfarlan) anti-freeze ½ gall	147	0			16	0
		gm 100	792	0		99	0	Furamide (143 Boots)	282	0		• •	30	6
	Deep (102 CB) treatme		3774 00	0		471	9	tablets 15	69	0	17	0	10	0
	Dento (219 Calvert)	tube	48 10		$\begin{array}{ccc} 2 & 0 \\ 2 & 8 \end{array}$	8	9	Fynnon (104 BP) balm	76 25	10	6	1 dea 5 dea	3	5
	Dequadin (34 A & H)	10					6	salt Gamgee (1073 Robinson) tissue	23	4	5	10	3	0
	tulle $4 \times 4$ in.	10	44 89	0		5 11	11	blue label BPC 2 oz	7	311b		• •	1	3
	Desert Flower (1131 Sh dusting powder	ulton)	77	0 3	7 6	13	6	4 oz 8 oz	6	8∦lb 4∦lb			2 4	3
	hand and body lotion	1	44	6 2	1 8	7 16	9	pink label NHS No. 3 2 oz	6 5	1∤lb 10 lb			8	2
	dispenser purse perfume		92 <b>70</b>	0 3	4 2	12	6	4 oz 8 oz	5	31lb 101lb		• •	1	9
	spray cologne talcum powder		$\frac{128}{37}$	$\begin{array}{ccc} 0 & {\bf 6} \\ 0 & {\bf 1} \end{array}$	2 5 8 0	22	6	16 oz	4	741b		 ::.	6	2
	toilet water		70		4 2	12	6	Germolene (104 BP) Germoloids (104 BP)	$\frac{35}{23}$	5	8 : 5	101 10		6
	Dimyril (502 Genatosar linetus	2 oz	29		7 4	4	3	Germoplast (104 BP)		10 8		• •		9
	Dinneford's (104 BP) m	4 oz agnesia	50 19		2 8 4 11	7 2	3 6	Gestanin (917 Organon)				••		
	Discord (876 MP) Distavone (378 DCBL)		13		6 9	2	3	tablets 5 mgm 30	18 52	6ea 0ea		:: -		9
	vet. vial	75 mils	46	6ea		69	8	Glo (876 MP) Glow-Pot (1126 Servis)	13 38	6	6	9		3
	Distivit (378 DCBL)						†TSVPO	Gon (1305 WB) tablets	27	0			3	0
	20 elixir 1000 tablets	4 oz	3 6	0ea 0ea	• •	4	6	Gossamer (164 Brandt) eyelashes Goya (532 Goya)	60	0		• •	7	6
	Donnazyme (1071 Robi	ns)				-		perfume cologne spray aerosol 30	57	6	28	0	9	8
	tablets	50 500	$\begin{array}{c} 122 \\ 1020 \end{array}$	$\begin{array}{ccc} 0 & 3 \\ 0 & 25 \end{array}$		14 121	6118184A 3 18184A	cedar wood cologne for men	45	3	22	1 3	7	6
	Dulcolax (154 B) suppositories 10 mgn	n 6	25	0		3	11/2	pre-electric shave lotion soap	33 11	6	16 2 5	10	1	6
		50	150	0		18	9	Hemotabs (634 GH) 12 Hide-It (876 MP)	22 10	9 <b>6</b>	5 2	81 71		6
	tablets 5 mgm	$\begin{array}{cc} & 30 \\ 200 \end{array}$	$\begin{array}{c} 25 \\ 130 \end{array}$	$0 \dots 0$		3 16	1½ 3	Humatin (938 PD) capsules 16	40	0ea			60	O TS
	Duromorph (718 LAB) ampoules 1·1 mil	6	81	0		9	0 DD	llosone (413 Lilly)	243	1ca		•		o TS
	Ekco (1377 Ekco)	0	01	0	• • •	_	6	Pulvules 125 mgm 24 100	21 86	0ea 4ea		 1		6 TS
	Ekcostat control Elastoplast (1155 S&N)	••	• •	••	• •	32	0	500	417 20	0ea		(	25	6 TS 6 TS
	first aid dressings $3 \times \frac{7}{8}$ in 100	11400	114	0		13	3	250 mgm 12 100	167	4ea 2ea		2	250	9 TS
	waterproof				• •	13	3	Immac (655 ICC) 500	812	6ea		12	218	9 TS
	$3 \times \frac{7}{8}$ in 100 airstrip	12400	114	0	• •			hair removing cream	44	2	22	1	7	0
	$3 \times \frac{7}{8}$ in 100 Enavid (1121 Searle)	14400	171	0	• •	20	0	Infurno (232 Carter) massage cream 1½ oz	18	0	4	6		0
	tablets 10 mgm	20	31	0ea 10ea	• •	46 104	8 †s4B 9 †s4B	I-So-Gel (34 A & H) 200 gm Jane Seymour (665 JS)	56	0	14	0	7	8
		250	323	3ea			10 †84B	wonder cream	$\frac{7}{12}$	0 <b>0</b>	3 6	6		2
	tablets 50 mgm	50	22	0ea		33	0 †s1s4A	Jeypeat (671 Jeyes) compound			0	U	_	
	vials 100 mgm	250	100 40	0ea 0ea	• •	150 60	0 †s1s4A 0 †s1s4A	trial pack of 8	24 29	0		• •	=	0 6
	200 mgm	10	53	4ea	::	80	0 †s1s4A 0 †s1s4A	pack of 4	29 27 24	4 4 0ea		• •	10	3
	Energen (421 Energen) low sugar jams							Johnsons (672 Johnson) sack				• •		
	strawberry	½ lb 1 lb	$\frac{15}{24}$	9	• •	1 2	8 9	baby suds Kodak (711 Kodak)	17	3	•	• •	1 1	
	plum	½ lb	13 22	6		1 2	6	Brownie Cresta 3 camera plastic case 925	292 64		73 16	0		7 4
	orange marmalade		13	6		1	6	Kruschen (634 GH) salts	12	8	3	2	1	8
	Eno's (104 BP) fruit sal	1 lb	20 24	3	6 0	2 3 5	3	Ledermycin (746 Lederle)	22	5	5	71	2 1	1
Deleta			42	8 10		5	4	drops 10 mils	7	4ea				TS TS
Detete	Felicur (1107 SAGB) (distributors 973 Pha		s)					syrup 2 oz 16 oz	10 1 78	0ea 0ea				3 TS 0 TS
Delete	capsules Formula 21 (539 Green)	1000 vood)						Lion (205 Burgess) ointment 1½ oz	15	0	3	9	2 (	0
	Esslim (1158 Sodastrear					2	0	3 oz	33 10	0	8	3		3
	Fashion Style (631 Hudi	nut)	•••		•••			Lip-Slik (876 MP) Litto (1282 VB)						
	soft casual	202 200	33 53	6 16	5 9		6 9	Cremard ointment Patchoid lotion	$\frac{20}{52}$	0 1	13	0	3 ( 7 11	i
	very curly	$\begin{array}{c} 203 \\ 201 \end{array}$	33	6 16	3 9	5	6	Sebacoid lotion	23	8	5 1	1	3 8	5
		998	29	6 14	1 9	4	9	special for dry hair	13	4	6	8	2 4	1
	Fennings (1100 JS) baby dusting powder		14	6 3	3 71	1.1	1		38	8 1	9	0	6 10	)
	cooling powders child			0 11			6	standard for oily hair	13	4	6	4 8 0	5 9 4 6 10 2 4 4 6 8 10	
		3	gros	ss g	ross			minten selementer	38	8 1	9	0	8 10	)
		$\frac{20}{100}$	69	6 3	7 41		11	Tintas colour restorer Margo's (798 Margolis)		0 1				
	little healers	. 36	12	6 3	$\frac{11}{2}$		8	baby powder 8 oz	$\frac{7}{12}$	2 6	1 3	9 <del>1</del> 11/2	1 3	
		12	60	0 15	5 0		8	hair lacquer spray bottle						
	Fibrenyl (461 FL) throat	sprav	gros 9	s gr 3	ross	1	2	Maw's (810 Maw)		0	•	6	2 0	
	Floidam (900 Norton)				6		6	lanoline cream tube 438.00 jar 438.01		7 9 1	2	3½ 4½	1 6	
	lotion	. 3 oz	39	0 19	, 0		•	jai #00.01		- 1	-	z		

Particular   10	9 0plslDD 41 3plslDD 4 9p1s1DD
Bistick   Boundary	9 0p1s1DD 41 3p1s1DD 9 1 11
shadow combos   16   0   7   6   2   6   Physican (104 BP)   34   10     3	9 1 11 3 4 3 9 1 11
Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 2 8 1 5 3   Mea-dex (314 M&B)   size   1 0 8 1 5 3   Mea-dex (314 M&B)   size   1	3 9 6 0 12 6
My Tan (47 Field)   size   40 0	1 4 7
## After shave Todon 0 0 0 45 0 15 0   Delete planted of the law Instant of the law I	3 <b>1 8</b>
Utta Vitalux tradiator terms and office the sum of the series of the ser	4 <b>2 0</b> 3 <b>1 8</b>
Sune at mifter cene 244   10 6 5 2 1 9 s	
eau parfumee 2 oz 080 0 9 6s. 4 7 jea19 6 4 8 0 jea23 8 1 6 0 4 16 3 6 16 0 6 16 3 6 sea 18 4 1 6 0 1 1 6 0 6 1 1 7 0 6 1 1 7 0 6 1 1 1 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1	
perfume handbag 017	3ea103 0 6 p1
Analysis of Part   Pa	9½1b <b>5 0</b>
1 02 061 37 6ea 18 18 3ea 75 0	2 0
Norvex (325 CRC)	6 2 6 4 10 <sup>1</sup> / <sub>2</sub>
Soluble   18   5   2   0   0   0   0   0   0   0   0   0	4 6 0 6 13 6
hand cream B	4 7
body talcum travel pack   393PM   35   0   17   1   6   2   glycerine, lemon and honey   Pabalate (1071 Robins)   tablets with hydrocortisone   500   2608   0   396   0   380   4   TS   medicated pastilles   2   0   3   0   1   1   1   1   1   1   1   1   1	
Padisha (Weil) (960 ADP) eau parfumee . 2 oz 080 9 6a 4 7 jea19 8 eau parfumee . 2 oz 080 9 6a 8 0 jea33 6 1 8 oz 082 26 3ca 12 9 jea52 6 1 16 oz 083 46 3ca 22 6ca 92 6 1 16 oz 083 46 3ca 22 6ca 92 6 1 16 oz 083 46 3ca 22 6ca 92 6 1 16 oz 083 46 3ca 22 6ca 92 6 1 16 oz 081 16 6ca 8 0 jea33 6 1 perfume handbag . 017 7 9ca 3 9ca 16 0 1 jea 016 14 9ca 7 2ca 30 0 1 jea 016 14 9ca 7 2ca 30 0 1 jea 016 14 9ca 7 2ca 30 0 1 jea 016 14 9ca 7 2ca 30 0 1 jea 016 15 9ca 7 8ca 32 0 1 jea 016 16 9ca 85 0 1 jea 016 17 9ca 3 0 1 1 2 jea 016 18 9ca 7 2ca 30 0 1 jea 016 18	1 6
16 oz 083	0 1 9 5 2 0 0 1 9
1 oz 014   42 0ea 20 6ea 85 0	0 1 9 0 1 9
1	
Parabal (1320 WP)   Tablets   100	0 49 11 0 17 6
PAS (572 HC) sodium tablets enteric coating 0·5 gm 500 14 10ea 19 9  sugar/enteric coating 0·5 gm 500 14 10ea 19 9  sugar/enteric coating 0·5 gm 500 15 0ea 20 0  enteric coating 0·75 gm 500 19 9ea 26 4  enteric coating 0·75 gm 500 19 9ea 26 4  Pasinah 6 PH (1303 Wander) PAS sodium 1·67 gm+33·3 mg INAH 1·67 gm+33·3 mg INAH 1 80 34 10ea 52 3 TS Pethidine hydrochloride (394 Duncan)  tablets 30 144 0 36 0 21  Stratten (735 Reskitt) 28 0 6 10 3  Stratten (735 Laughton)  Empress Lipview 277/EMB 21  Streptotria (971 P&HB) granules for 1½ oz	6 3 6
Solution	9ea 166 3 †s4B
1·67 gm+33·3 mgm INAH	7 0 pls4B 8 3 pls4B 28 9 pls4B
tablets, 25 mgm . 100 38 0 4 9plslDD type SS 53 5ea 13 0ea 88 500 168 0 21 0plslDD DS 70 8ea 17 3ea116	9ea <b>72 9</b> 4ea <b>96 8</b> 0ea <b>88 0</b>

	D3 VR1 VR2 VR3 HS/3 HD/3 Suntax (324 Crookes) v	······································	73 64 87 90 83 105	2ea 10ea 8ea 1ea 4ea 2ea		10ea120 10ea106 5ea144 0ea148 4ea137 8ea173	6 10 5 6 4 2	
		100 mils	264	0		33	0	
	Swandown (1218 HT) trio pack		12	4	6	2 2	1	
70.7.4	Tabloid (208 BW) cyclobarbitone gr 3	100 500 1000 5000	$\begin{array}{c} 54 \\ 226 \\ 432 \\ 2120 \end{array}$	0 0 0		28 54 265	0	†s1s4A †s1s4A †s1s4A †s1s4A
Delete	thyroid gr 1 Tace (838 MN) tablets Tan (388 Cussons)	100	164 504 49	0 0 9	24	20 63 3 8	6 0 6	†84B †84B
	Tetrazets (837 MSD) Thoracin (769 LH) oin	tment 1 oz	36	0	7	4	6	†s7
	Trivexin (208 BW) vet	trial	76 10	0	5	0 1	8	
Delete	2	100 mils 250 mils	450	0		50	0	
	Tycoon (705 Kirby) after shave lotion deodorant hair dressing medicated shampoo pre-electric shave lot talcum powder presentation packs of	иоц	32 32 32 32 32 32	0 0 0 0 0	16 16 16 16 16	0 6 0 6 0 6 0 6 0 6	0 0 0	
	Urelim (1305 WB)	wo	68	0	34	0 12	6	
	tablets 0.5 gm  Uvistat (1305 WB)	100 500	$\begin{array}{c} 26 \\ 116 \end{array}$	0ea 8ea	$\frac{6}{29}$	6ea <b>45</b> 2ea <b>204</b>	6 2	
	cream Valderma (343 DH)	$50~\mathrm{gm}$	60	0	15	0 8	9	
	talcum powder Vaseline (256 CPL)		16	5	8	$2\frac{1}{2}$ 2	6	
	medicated shampoo		28	10	7	2½ 3	11	
Delete	Veno's (104 BP) cough mixture Viacutan (1305 WB) to	30 50	31 42 72	$\begin{array}{c} 2 \\ 0 \\ 0 \end{array}$	7 10 18	4½ 4 6 6 0 10	0 11 6	
	Visa (Piguet (1201 Sup bath oil	ervite))	13	0ea	6	6ea <b>26</b>	9	
	Warfarin (1305 WB) sodium tablets 20 mg	m 50	360	0		46	6 0	
	Wet and Set (220 CAL hair curling tissues	··	17	6	8	9 2	11	
	Yaxa (261 Christy) perfumed deodorant perfumed roll-on refill	::	19 27 21	6 0 0	9 13 10 3	9 3 6 4 6 3 9 1	3 6 6 11	
	Yeast-Vite (104 BP) Zap (1070 Windsor)	••	$\frac{15}{33}$	0	8	3 4	3	
		3000 DP)	56 gro	10 ess		••	6	
	eau parfumée 2 4 8 16 perfume handbag	oz 080 oz 081 oz 082 oz 083 017 oz 016 oz 015	9 16 26 46 7 14 26	6ea 6ea 3ea 3ea 9ea 9ea 3ea	22 3 7 12	7½ea19 0½ea33 9½ea52 6ea 92 9ea 16 2ea 30 9½ea53	666000	
	handbag coffret diffusette	oz 014 oz 013 SE oz 016D oz 015D oz 015R	29 26	0ea 0ea 9ea 6ea 0ea	36 7 8 14 12	6ea 85 6ea 150 8ea 32 6ea 35 2ea 58 8ea 52	0 0 0 0 6	
	de luxe bottle in coi "Secret de Venus" l	bath oil	135 90	0ea 0ea	65 43	10ea 270 10ea 180	0	
	1 2 4 bobine sir	oz 060B oz 061 oz 062 l oz 063 ngle 060	37 67 127 4	9ea 6ea 6ea 6ea	10 18 32 62 2	1ea 42 3ea 75 11ea 135 2ea 255 0 dea 8		
		.2 060	50	0ea	24	4lea10		
(164 S	AMENDMENTS Brandt)=R. BRAND heldon Road, London,							TD., 25

(164 Brandt)=R. BRANDT & CO. (MANUFACTURING) LTD., 25 Sheldon Road, London, N.W.2. Gladstone 9757. (220 CALG)=C.A.L.G. ENTERPRISES, LTD., 34 Upper Brook Street, London, W.1. Hyde Park 0148. (257 Chilton)=CHILTON ELECTRIC PRODUCTS, LTD., Hungerford, Berks. Hungerford 237. (315 Crater)=CRATER PRODUCTS, LTD., Lower Guildford Road, Knaphill, Woking, Surrey. Brookwood 2571. (325 CRC)=C. R. CROSSKILL & SONS, LTD., Calvert Works, Norwich. Norwich 27101. (461 FL)=FIBRENYL, LTD., 157 Dukes Road, London, W.3. Acorn 5073. (47 Fleet) = FLEET LABORATORIES, LTD., 675 Mount Pleasant Road, Toronto 7, Ontario, Canada. Delete (605 Hill's)=HILL'S PHARMACEUTICALS, LTD., Spring Bank Works, Nelson, Lancs. Nelson 65321. (826 MJ)=MEADE JOHNSON, LTD., 10 Upper Grosvenor Street,

(826 MJ)=MEADE JOHNSON, LTD., 10 Upper Grosvenor Street, London, W.1. (861 MPC)=MORGANS POMADE CO., LTD., 122 Maidstone Road, Sideup, Kent. Foots Cray 7878.

(1115 SI)=SCHICK INCORPORATED (UK) LTD., 86a Brook Street, London, W.1. Grosvenor 5559. (1158 Sodastream)=SODASTREAM, LTD., 22 Oval Road, London, N.W.1. Gulliver 4421. (1247 TDC) = TRICO DEVELOPMENTS CO., LTD., Great West Road, Brentford, Middlesex. Isleworth 3464. (1274 VDL)=V-DEVELOPMENT, LTD., 22 Clifton Road, London, W.9. Cunningham 0701.

#### THIS WEEK'S CHANGES

NEW and altered	entries	notifie	d for	th	e fir	st ti	me.
A = Ac	ivanced.	R=I	Reduc	ed.			
Entries new the Actifed (208 BW) tab				th			0 4
Azymil (176 BCLO)			0		••	130	0 †s7
Bronnley (194 Bronnl	(ey) 30	49	6			6	9
after shave cream lotion 2½ oz	209 $201/2$	$\frac{33}{25}$	$\frac{0}{3}$	$\frac{16}{12}$	$\frac{1}{3}$	5 4	9
5 oz baby lotion	201	$\frac{45}{20}$	$\frac{6}{6}$	22 5	$\frac{2}{0}$	7	6
5 oz baby lotion	272 770	17 17	0	4	2 2	2 2	6
bath crystals 2 lb 4 lb	$\frac{400/2}{400/4}$	44 75	$\frac{\ddot{6}}{6}$	21	9 10	7 12	6
salts apothecary bay rum 2½ oz	jar 436	51	0	$^{24}$	11	8	6
5 OZ	207/2	$\frac{22}{34}$	$\frac{3}{6}$	$\frac{10}{16}$	$\frac{9}{10}$	4 6	2 3
beauty Cologne $2\frac{1}{2}$ oz	1027/80	54	0	26	4	9	6
5 oz bath essence	1027/81	76	0	39	0	13	6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$1027/82 \\ 1027/83$	$\frac{54}{76}$	0	$\frac{26}{37}$	4	9 13	6
hand lotion 5 oz talcum powder	1027/83 $1027/84$ $1027/85$	39 24	6	18 12	9	7	0
bath cubes (6) (12)	1027/86	28 54	6		11	5	0
brilliantine 2½ oz	206/2	22	3	10	9	4	2 3
5 oz honey and flowers	206	34	6		10	6	
$2\frac{1}{2}$ oz	208/2 208	$\frac{22}{34}$	$\frac{3}{6}$		$\frac{9}{10}$	6	2
original oatmeal cre	$\frac{\mathrm{am}253/1}{253/2}$	$\frac{18}{38}$	$\frac{6}{0}$	9 18	$\frac{0}{6}$	3 6	3 6
pine bath cubes (6) essence 10 oz		19 56	0	$\frac{4}{29}$	8	3	3
pre-electric shave l		25	3	12	3	4	3
chaving soon howl	$\begin{array}{c} 200 \\ 205 \end{array}$	45	6	22	$\frac{3}{2}$	7 8	6
shaving soap bowl refill	205/R	58 34	0	14	3	5	0
stick refill	$2304 \ 2304/R$	$\frac{20}{10}$	3	$\frac{4}{2}$	$\frac{11}{6}$	2 1	9
baby toilet (3) bath ball	1030	41	0	10	0	6	0
bath ball beauty visitors (6	5) 1027/V	$\frac{57}{42}$	$0 \\ 0$	$\frac{13}{10}$	8 6	8 6	6
toilet bath	1027/T	$\frac{10}{20}$	6	2	$^{7}_{11}$	1	8
colossal lemon toilet	1027/8 1027/C 601	51 11	6	$\frac{12}{2}$	7 10	8	0
bath	601/B	21	8	5	3	3	3
visitors marbles (34)	601/V 434	7 49	3	11	9 11	7	6
melon men's toilet (3)	603/R 204	110 46	0	$\frac{26}{11}$	$\frac{10}{3}$	16 6	9
original round ba	1007/3	23	0	5	7	3	9
pine toilet 3 oz bath 6 oz	$\begin{array}{c} & 650 \\ & 651 \end{array}$	10 18	$\frac{6}{6}$	2	$\begin{array}{c} 7 \\ \cdot 6 \end{array}$	1 2	8
pre-make-up	1052	11 49	$\frac{6}{0}$	$\frac{2}{12}$	$\frac{7}{2}$	1 7	9
"sea shell" guest "shell" (3)	435	57 -30	6	13 7	8 5	8	6
turtle oil toilet bath	604/T 604/B	8 15	7	3	$\frac{1}{2}$	1 2	3 2
sun-tan lotion	2521	28 21	0	13	11	4 3	9
oil talcum powder	2711	34	6		10	5	9
turtle oil	200	26	0	12	8	4	6
talcum powder bath cubes (6)	606	21 19	0 6	9	$\frac{6}{6}$	3	6
• Celbenin (1393 BRL)	607	33	0	16	0	5	6
vials 1 gm	$\begin{array}{cc} \cdots & 5 \\ 25 \end{array}$	$\frac{65}{325}$	0ea 0ea			97 487	6 TS 6 TS
Cuir de Russie (247 C)	100	1300	0ea			950	o TS
soap toilet bath	••	$\frac{20}{37}$	$\frac{8}{10}$	5 9	$\frac{2}{6}$	3 5	6
talcum R Delta-Butazolidin (50	6902	6	2ea	3	1ca		ŏ
tablets	150	570	0			71	3†s4ATS
Distaval (378 DCBL)	500	1740	0		• •	217	6†s4ATS
tablets forte 100 n Flavelix (466 FF) line	ctus 4 oz	$\frac{204}{28}$	0ca 0	7		306 4	0 †s4B 1 †s7
	20 oz 80 oz	$\frac{100}{30}$	0 0ea		::		†s7 †s7
• Franccide (208 BW) injection 400 mils		225	0			25	o vso
• Insulex (658 Insulex) ice bowl		22	0ea	2	7ea		6
<ul> <li>Metamsustac (972 Ph</li> </ul>		4	1½ea	_			†s4B
tablets 7½ mgm	250 30	31	0ea 10½ca		••		†s4B †s4B
15 mgm	250	$\begin{array}{c} 4 \\ 37 \end{array}$	0ea				†s4B

Morny (862 Morny)				
luxury mist				
Blue Carnation, Pink Lila	c.			
Sandalwood, French Fern				
June Roses, Lily of the Va				
Gardenia			15	5 0
Mum (1113 S&B) for men	34	0 17	0 5	6
Nicotex (797 MSG)	01	0 1,		
nicotine stain remover	22	0 11	0 3	3 6
Nikini (1073 Robinson)	22	0 11		, ,
	60	0 3	0	11
sanitary garment		$\begin{array}{ccc} 0 & 3 \\ 3 & \dots \end{array}$	0	
pads 12			2	1 3 2 1
Panets (1305 WB) tablets 16				
Parnate (1153 SKF) tablets 50			7ea <b>2</b> 5	
500	) 142	0ea 35	6ea	†s4B
Parstelin (1153 SKF)				
tablets 50	20	0ea 5	0ea <b>3</b> 5	6   0   †s4B
500	190	0ea 47	6ea	†s4B
A Pride (487 Furman)				
hair lacquer spray	21	6 10	9	39 .
Robinson's (285 Colman)				
Delete Sicilian lenion juice 12½ oz	,			
25 oz	•			
Softies (1389 Velvet)				
anines (1909 / GIVEL)				

3-ply hankies		16	47					6	
1 1 1000 0 11	,		$\mathbf{gro}$	SS					
<ul> <li>Sporostacin (922 Orth</li> </ul>	0)								
cream tube only			160	0	40	0	23	4	
with applicator			180	0	40	0	25	10	
Sterispon (34 A&H) g	elatin :	spon	ge						
No. 2 $20 \times 10 \times 0.1$		ì	100	0			12	6	
No. 4 $10 \times 10 \times 0.5$	cm	6	46	4ea			69	9	
■ Taractan (1074 Roche	(:)								
ampoules 30 mgm	·	6	74	0	18	6	10	91	
mpoules so mg		50	43	4ea		10ea	75	10	
tablets 15 mgm		50	90	0	22	6	13	13	
	2	50	30	0ea	7	6ea	52	6	
R Tofranil (501 Geigy)									
tablets		50	185	0			23	1 ½	ts4B
		00	710	ŏ			88	9 "	ts4B
	10		3300	ŏ			412	6	ts4B
	10	UU	9900	0			*		1041

#### AMENDMENTS TO KEY TO SUPPLIERS:

(385 DG) = DOROTHY GRAY, LTD., 565 Kingston Road, London, S.W.20 Liberty 3471 = INSULEX, LTD., 67 Westbourne Grove, London, W.2. (658 Insulex)

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

London, September 21: With the exception of IPECACUANHA and PERU BALSAM, there was no evidence of weakness in prices among CRUDE DRUGS during the week, despite the continued sluggish demand for most items.

Peru balsam was down ninepence per b. at 9s., in bond. Colombian ipecacuanha for shipment was lower by sixpence per lb., and the Costa Rican by 5s.; Matto Grosso variety new-crop is not yet quoted. Portuguese ERGOT was available at 11s. per lb. on the spot, whereas indications from origin were in the region of 12s. 6d., c.i.f. Spot American Lobelia Herb appeared to being available from origin, was listed at 3s. 6d. per lb., c.i.f. CASCARA was quoted dearer at 275s. per cwt., c.i.f. Also dearer among the Arrest control of the contr BOTANICALS WERE CHERRY BARK at ls. 11d. per lb. (up twopence), and WITCH HAZEL LEAVES at 2s, 8d. (up 3d.). SARSAPARILLA was scarce on the spot with 2s. 8d. quoted against 2s. 5d. recently. Similarly QUILLAIA was nominally 175s, per cwt. against 160s. The Mossel Bay variety of ALOES was still not offering at source although the less sought-after Port Elizabeth was quoted.

There was no important change among ESSENTIAL OILS with Formosan CITRONELLA for shipment (down one penny per lb.) showing the only move-

Among Pharmaceutical Chemicals the prices of MERCURIALS were lowered in line with the lower rates for MER-CURY noted recently (C. & D., Scptember, 10, p. 310). ZINC OXIDE, B.P., rose 50s. per ton on September 20, making 2-ton lots £112 10s. per ton.

A good call exists for most INDUS-TRIAL CHEMICALS and shortages of several items persist. Chief among the latter is NAPHTHALENE with producers getting what they can, within reason, for the small supplies left after meeting their long-term contracts with the phthalic manufacturers. Sales of PHENOL have been good and most re-finers are well sold for the remainder of the current year.

#### **Pharmaceutical Chemicals**

AMPHETAMINE. — One to 10-kilo lots: Base, from 140s. to 160s.; sulphate, 110s. to 130s, and d-amphetamine sulphate, 405s. to 420s.

AMYLOBARBITONE. — B.P.C. is 82s. 6d. per kilo for less than 25-kilo lots and SODIUM, B.P.C., 92s. 6d. per kilo.

ATTROLINE: Attros	LOI LO OL.	(500 giii.)
	per oz.	per kilo
ALKALOID METHONITRATE METHYLBROMIDE SULPHATE	s. d. 39 0 39 0 38 6 34 0	s. d. 1375 0 1375 0 1357 0 1198 6

ATROPINE -Rates for 16-oz (500 gm):

BARBITONE. — Less than 25-kilo lots, is. 6d. per kilo. Sodium derivative, 53s. 6d. per kilo.

BUTOBARBITONE. — B.P.C., kilo in less than 25-kilo lots. B.P.C., 87s. 6d. per

Cocaine. — 16-oz lots, hydrochloride, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CYCLOBARBITONE. — Less than 25 kilos; B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

DIHYDROXY-ACETONE.—Per kilo £9 for minimum 1-kilo lots.

HEXOBARBITONE. — 25-kilo lots or over, 115s, per kilo.

KAOLIN.-LIGHT, 60s. per cwt.; 1-ton 57s. per cwt.

MERCURY DERIVATIVES. - Lower. Quotations (per kilo) for less than 50-kilo lots are now:—AMMONIATED, B.P., lump or powder, 55s. 6d.; PERCHLORIDE, B.P., powder, 48s.; SUBCHLORIDE (calomel), B.P., 54s. 6d.; OXIDES, yellow, B.P., 57s. 3d.; red B.P.C., 1949, 58s. 6d.

METHADONE.—Subject to D.D.A. 16s. 3d. per 5 gm. pack.

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

	35 oz. and over	Under 35 oz.
Constitution	s. d.	s. d.
CODEINE		
PHOSPHATE	 41 0	42 0
HYDROCHLORIDE	 47 3	48 3
SULPHATE	 47 3 47 3	48 3 48 3
ALKALOID	 54 0	55 0
Morphine		
ACETATE	 50 0	51 0
HYDROCHLORIDE	 50 0	51 0
SULPHATE	50 0	51 0
TARTRATE	 60 0	61 0
ALKALOID	 61 3	62 3
ETHYLMORPHINE		
HYDROCHLORIDE	 54 0	55 0
ALKALOID	 63 3	64 3
DIAMORPHINE		
ALKALOID	 54 9	55 9
HYDROCHLORIDE	 59 9	60 0

Pentobarbitone. — Under 25-kilo lots, 125s. per kilo; sodium, 130s.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A. Regulations, 229s. 2d. per 250 gm. PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d.;

500-gm., 54s. 6d. SODIUM SALT unchanged at 55s. 6d. per kilo for 5-kilo lots. 500-gm.,

Physostigmine. — Per gm.: alkaloid, 14s. 8d. (5-gm. lots); salicylate, 10s. and sulphate, 12s. 7d. (25-gm. lots); nitrate, 1s.  $1\frac{1}{2}$ d. (500-gm.).

SULPHACETAMIDE.—One-cwt. lots, 24s. 6d. per lb. Sodium derivative, 30s.

SULPHAGUANIDINE. — One-cwt. lots, 11s. per lb.

SULPHANILAMIDE. — One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE.—Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE.—One-cwt. lots, 16s. 9d. per lb.

#### **Industrial Chemicals, Solvents**

ACETALDEHYDE.—The 100 per cent. is £122 per ton.

ACETATES.—Per ton, spot 1-ton lots: AMYL (technical), £254, and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE.—10-ton lots, £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

Benzole.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL.—1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall. for 10,000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots, £138 10s, per ton.

Naphthalene.—Nominal home contract prices per ton for large users:—CRUDE, crystallising point 64–71-9° C., £22 5s. to £23; WHIZZED, c.p. 72–77-5° C., £27, 5s. to £35 15s. according to the crystallising point, ex works: PHTHALIC grade, minimum c.p. 77.5° C., £42 10s. ex maker's works; CRYSTALS from £62 10s. to £65 delivered; BALL AND FLAKE, £71 to £73 10s. delivered.

PHTHALATES. — Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

STEARATES. — Spot prices for minimum 1-ton lots:—Aluminium (all grades), 253s. 6d. per cwt., CALCIUM (precipitated), 243s. 6d.; LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (superfine), 302s.; Zinc 226s. to 286s. as to grade grade.

#### Crude Drugs

- Spot: Spanish napellus, ACONITE. 2s. 6d. per lb.

ALOES. — Cape primes, spot, 180s. per cwt., extra quality 185s. quoted; shipment, Port Elizabeth, 175s., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.; CANADA: Spot, 22s. for paper-filtered. COPAIBA: Para spot, 9s. 6d., duty paid. PERU: Spot, 9s. in bond. Tolu (genuine as imported): 21s. B.P., 12s. 6d. per lb.

Belladonna. — Leaves (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

BENZOIN. -Sumatra block, spot £22 to £30 as to quality.

Buchu. — Scarce. Spot rounds, 1960 crop, 5s. per lb.; 1959 crop, 4s. 3d. to 4s. 6d.

CALABAR BEANS.—Spot, 2s. 3d. per lb. CALAMUS.—Root, 1s. 2d. per lb., c.i.f. CALUMBA.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

Capsicums.—Chinese, 155s., duty paid; East African, off-stalk, 175s. to 220s. as to quality.

Cardamoms. — Aleppy greens, spot cleared; prompt shipment, 13s. 7½d. per lb., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

Cascara.—Spot, 1960 peel, 260s. per cwt., shipment, 275s., c.i.f.

Cassia. — Fistula, 115s. per cwt., spot; lignea, 380s., duty paid.

CHERRY BARK. — Thin natural, 1s. 11d. per lb.; rossed, 2s. 6d., nominal.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 8½d.; 3 O's, 5s. 5d.; O, 5s. 0½d.; quillings, 3s. 3d.; featherings, 1s. 8d.

COCHINEAL.—Black-brilliant, 12s. 3d. per lb., spot; Peruvian silver-grey, 4s. 6d.

Cocillana. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — Purpurea for shipment, 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEMI.—Spot, 2s. 6d. per lb. nominal. Shipment, not offering.

Ergot.—Portuguese nominally 12s. 6d. per lb., c.i.f., for prompt shipment; spot,

GENTIAN.—Spot: French, 155s. per cwt. GUM ACACIA. — Kordofan cleaned sorts, 167s. 6d. per cwt., spot; afloat, 154s.. c.i.f.

HENNA.—Indian, spot, 95s. per cwt.; new crop, November-December shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 97s. 6d. 10 100s. per cwt. and medium amber 92s, 6d. to 97s. 6d.; Argentine, 100s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Colombian, 52s. 6d.; Costa Rican, 68s. 6d.; Nicaraguan, 66s. 6d. Spot: Matto Grosso, 53s. 9d.; Colombian, 55s. 6d. 55s. 6d.

JUNIPER BERRIES.—Italian, 90s. per cwt.; German, 145s.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

Kola nuts. — Jamaican for shipment, 7d. per lb., c.i.f. African,  $5\frac{1}{2}$ d. spot and 4d., c.i.f.

Lanolin. — Anhydrous, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and Hydrous, B.P., 150s., free drums, delivered.

LEMON PEEL.—Spot, 2s. 6d. per lb.

LINSEED.—Whole, 75s. to 80s. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Persian on the spot, 45s. per cwt. and Anatolian decorticated, 165s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 310s. to 470s. per cwt.

LOBELIA HERB.—Dutch for October shipment, 3s. 6d. per lb., c.i.f.

MERCURY. — About £69 10s. per flask of 76 lb.

NUTMEGS. - West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 6d.; defectives, 7s.  $4\frac{1}{2}$ d.

Nux vomica.—Spot, 125s., cwt.; shipment, 105s., c.i.f.

Orange Peel. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 11d.; Spanish, 1s. 7d.; bitter ribbon, 1s. 6d.

PEPPER.—White Sarawak, spot, 5s. 4d. per lb.; shipment, 5s. 1d., c.i.f. Black Sarawak spot, 4s. 4d. Shipment, 3s. 7d., c.i.f. Black Malabar, 460s. per cwt. spot, and 455s., c.i.f.

PEPPERMINT LEAVES. — Dutch whole, 1s. 9d. to 2s. 2d. per lb., c.i.f.

Podophyllum. — Emodi, 185s. per cwt. spot, Peltatum, spot value, 375s.

QUILLAIA. — Spot, 175s. per nominal.

RHUBARB. — Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

5s. 9d. to 6s. 9d. per lb. on the spot.

SARSAPARILIA. — Jamaican native red short on spot, 2s. 8d. per lb. nominal; shipment, 2s. 1d., c.i.f., nominal.

SEEDS. — (Per cwt.). Anise.—Spanish, 157s. 6d., duty paid. Caraway. — Dutch, 175s., duty paid. Celery.—Indian firmer with spot now 145s. and shipment, 137s. 6d., c.i.f. Coriander.—Moroccan dearer at 85s., duty paid; shipment, 65s., c.i.f., paid with sellers at 66s. 6d., c.i.f. CUMIN.—Indian, 200s. spot; Iranian, 205s., duty paid. Dill. — Indian firm at 100s., spot; shipment, 87s. 6d., c.i.f. Fennel.—Chinese, 105s., duty paid, Indian, 125s. Fenugreek.—Moroccan spot, 55s., duty paid; shipment, 47s., c.i.f., paid. Mustard.—English, 75s. to 90s. according to quality. to quality.

SENEGA. · Spot, 22s. 6d. per lb.; shipment, 21s. 6d., c.i.f.

SENNA. — Tinnevelly LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. Pods: Manufacturing (f.a.q.), 9d. and hand-picked, 1s. 6d. to 1s. 10d. Alexandria pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. 6d. to 7s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

STRAMONIUM — Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

SQUILL.—White 80s. per cwt., spot.

STYRAX. — Spot, 32s. 6d. per lb., shipment, 30s., c.i.f.

Tonquin Beans.—Para spot, 7s. 9d. per lb. Angostura 11s.

TRAGACANTH. — No. 1 ribbon, £135 to £140 per cwt. No. 2, £125 to £130.

TURMERIC. — Madras finger on spot is 105s. per cwt.; shipment, 95s. to 100s., c.i.f., quoted.

VALERIAN ROOT. Spot: Indian (with rootlets), 130s. Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared; newcrop prices awaited.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d 56-lb., 23s. 9d.; smaller quantities, 24s.

Waxes. — (Per cwt.). BEES'.—Dar-es WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 485s.; shipment, 475s., c.i.f. Abyssinian, spot 410s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 425s.; shipment, 375s., c.i.f. Candellla, spot, 470s. Carnauba, fatty grey, spot, 560s.; shipment, 540s., c.i.f.; prime yellow, spot, 770s.; shipment, 745s., c.i.f.

WITCH HAZEL LEAVES.—New-crop nominally 2s. 8d. per lb.

#### **Essential and Expressed Oils**

AMBER.—Rectified on the spot, 1s. 6d.

ARACHIS.—Spot, 2-5-ton lots naked ex mill, £142 per ton.

BERGAMOT.—Spot, from 72s. 6d. per lb. CADE. — Spanish, 3s. 6d. per lb. for drum lots.

CAMPHOR, WHITE.—Chinese, 1s. 8d. per lb. in bond; 1s. 5d., c.i.f.

Cardamom. — From 330s. per lb. for English-distilled and 260s. for imported.

Castor.—Home-produced B.P. oil, spot, £159 per ton naked ex mill (2-ton lots).

Celery seed. — Dutch oil, 90s. per lb. and Chinese, 65s.

CITRONELLA. — Ceylon, spot, 6s. 6d.; shipment, 6s. 4d. per lb., c.i.f. Formosan, spot, 6s. 6d., in bond; shipment, 6s. 2d., c.i.f.

COD-LIVER. — B.P. is 11s, 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—B.P. oil, 52s. 6d. per lb., spot.

CUBEB.—Small spot supplies of imported are 65s. per lb.; English, 90s.

EUCALYPTUS.—Australian 70 and 75 per cent. eucalyptol on the spot is 5s. 3d. per lb 80-85 per cent., 5s. 6d. Spanish (70-75), 3s. 6d. spot. Chinese 3s. to 3s. 6d., duty paid.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

Grapefruit. — Jamaican, 12s. 6d. per lb. spot. Florida, 14s. 6d., spot.

LAVANDIN.—Spot from 6s. per lb. for original drums.

LAVENDER.—From 20s. to 50s. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 13s. 9d. per lb. for original drums.

LEMONGRASS. — Spot, 13s. 6d. per lb., and shipment, 12s. 12d., c.i.f.

NUTMEG.—Imported B.P. oil is 90s. per lb. English-distilled 100s.

OLIVE. — Spot, 19s. 6d. to 20s. 6d. per gall. in drums ex wharf, London.

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INCO-PADS, hitherto available only to hospitals, are now offered for use in the home. Proved by extensive use in hospitals, they are designed both to prevent the soiling of bed-linen and to reduce laundry costs in cases of incontinence and home confinements.

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Conditions frequently associated with blood pressure, such as Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalagia, Arthritis and Auditory and Ocular Troubles, respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.

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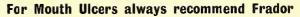
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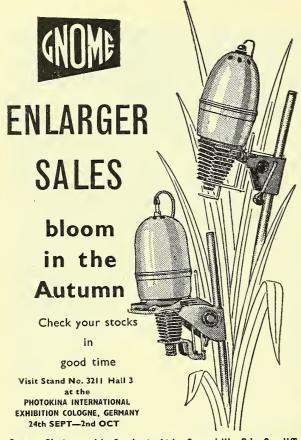




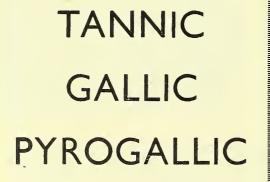
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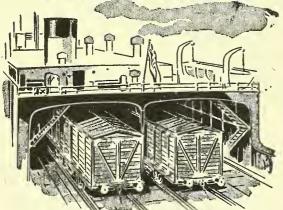
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(461 beds)

Pharmacist (or Assistant-in-Dispensing)
required immediately in this modern and
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Barnet is terminal of Northern Line (London
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EPSOM, SURREY
Applications are invited for the following fulltime posts:-

Senior Pharmacist
Salary within the scale £770—£1,010 p.a., plus London Weighting.

Pharmacist
Salary within the scale £690—£920 p.a., plus London Weighting.

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Salary Scale—age 22 and over, £395, rising to £355 p.a., plus London Weighting. If qualified, additional £50 allowance payable.

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C 5885

#### ROYAL FREE HOSPITAL, GRAY'S INN ROAD, LONDON, W.C.1

LONDON, W.C.1
Senior Pharmacist
Applications invited for the above post in the manufactur.ng laboratory, Good opportunities for gaining experience in the small-scale manufacture of pharmaccutical preparations, Salary £776 to £1,010 per annum plus London Weighting and higher qualification allowance if applicable, Additional payment for evening clinics, Applications with names of two referees should be addressed to the Group Chief Pharmacist.

C 5884

### HOSPITALS FOR DISEASES

Applications are invited for the post of Senior Pharmacist
Applications are invited for the post of Senior Pharmacist at THE LONDON CHEST HOS-PITAL. Salary in accordance with the Whitley Council scales, Applications, stating age, qualifications and experience, accompanied by two testimonials to the House Governor, London Chest Hospital, E.2.

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Applications are invited for two posts of Pharmacist (one full-time, one part-time) to the above Group of Hospitals.
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Both hospitals are situated near the Central Underground Line within easy reach of Central London

Application forms obtainable from the Group Pharmacist, Whipps Cross Hospital, London, E.11, to be returned by October 3, 1960.

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HOSPITAL OUT-PATIENTS'
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Applications are invited for the post of Chief
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C 5886

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C 5892

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The post offers excellent salary, and prospects for the right man. Bachelor, about 30, preferred, but this is not governing. Free passages and furnished accommodation, generous leave condi-

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Five-day, 42-hour week. Pension scheme, Life assurance.

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Have you some years' experience in selling and marketing cosmetic or pharmaceutical lines? Are you under 45? Have you drive and enthusiasm? Can you handle people—get on equally well with those above and below you? Then we can offer you an unusually interesting post which could lead eventually to the top. We are medium sized, progressive international company with several proprietary lines which are leaders in their field. We are not filling a vacancy. We are planning for the future, Write fully about yourself, marking your envelope "Confidential" to Managing Director, Box C 5880. C 5880.

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C 5891

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WELL-KNOWN PUBLIC COMPANY, electrical industry, requires commission agents with first-class connections hospital boards, therapeutic centres, etc. These products are in demand, are unique of their kind, and commission terms are generous. Apply Box C 5861.

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Applications are invited from progressive Wholesalers in all parts of the country, to act as Sole Distributors in defined areas for a unique, domestic consumer product retailing at 2s, 6d. which will make its first appearance on the market during the early part of November.

the market during the early part of November. This product is without competition and will have tremendous sales throughout the year (patent pending). The Manufacturers will only be interested in appointing those Firms on the above basis who have a virile, order getting sales force which can produce top results, and who are not just content to put stock on to warehouse shelves. This is an opportunity for really alive, go-ahead concerns, and the manufacone and the manufac-go-ahead concerns, and the manufac-turers ask for full particulars of such Organisations in support of their appli-cations. All replies will be acknow-ledged and treated in the strictest con-fidence, Box C 3186.

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C 3141

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C 5866

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Pharmaceutical chemistry Pharmacology

Applicants should possess a degree or registrable qualification in pharmacy. A post-graduate qualification, teaching or research experience would be an additional advantage.

The New Zealand School of Pharmacy opened in February 1960 at the Central Technical College, Petone (Wellington), and provides a two-year full time course with 75 students in each year. The subjects covered in the first year are Chemistry, Physics and Biology, and the second year of professional studies will start in 1961.

Salary—Senior Tutor £1,380 × £50 to £1,530
Tutor £1,180 × £50 to £1,380
Assistant Tutor £880 × £50 to £1,180

These salary scales which are at present under review apply to both male and female staff. Appointments may be made in the grade of Senior Tutor, Tutor, or Assistant Tutor, and at any point in the scale. Appointees will be expected to take up their duties in February 1961.

Steamer fares and allowances on New Zealand Public Service scale will be paid to successful applicants. Further details and application forms may be obtained from the Deputy High Commissioner for New Zealand, 415 Strand, London, W.C.2. Applications will close on 29th October, 1960.

C 5889

C 5881

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RUBBER BUNGS in many standard sizes and specification. Esco (Rubber), qualities or to specification. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16, C 511

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Phone, write or call:—
SPEARS
(Dept. D.), Wating Street, Shudehill,
Manchester.
Phone: Blackfriars 9432 (5 lines)
Bankers: Midland Bank, Ltd.

C 438

#### TRADE MARKS

THE TRADE MARK No. 572572 consisting of the word MAC and registered in respect of medicated throat lozenges was assigned on the 29th March, 1960, by Macleans Limited of Great West Road, Brentford, Middlesex, to James Pascall Limited of Mitcham, Surrey, WITHOUT THE GOODWILL OF THE BUSINESS IN WHICH IT WAS THEN IN USE. C 5872

THE TRADE MARK No. 782468 consisting of the word ALGISPRAY and registered in respect of pharmaceutical preparations for spraying purposes was assigned on 6th July, 1960, by Halsteads (Chemists), Limited, of 81 Castle Street Hinckley, Leignster, 81 Castle Street, Hinckley, Leicestershire, to Castle Laboratories, Limited, of 77 Castle Street, Hinckley, Leicestershire, WITHOUT THE GOODWILL OF THE BUSINESS IN WHICH IT WAS THEN IN USE. C 3181

THE TRADE MARK No. 558749 consisting of the words THREE JESTERS and device and registered in respect of chemical substances prepared for use in medicine and pharmacy, but not including soap, was assigned on the 13th April, 1960, by A, Herschell & Company, Limited, of 83/85 The Albany, Old Hall Street, Liverpool, to William Rawlinson, Limited, of 59 The Albany, Old Hall Street, Liverpool, WITHOUT THE GOODWILL OF THE BUSINESS IN WHICH IT WAS THEN IN USE. 3

#### MISCELLANEOUS SALES

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Samples on request.

Special Prices For Quantities. A. & H. Heyman, 27 Grange Road, Darlington. CASH REGISTERS FOR SALE. New and second-hand, electrically or hand-operated, Different models, Part exchange and easy terms, Write Box C 547,

**DI-HYDROXY-ACETONE.** 50 kg. Original package, £7 kg, Box C 5878.

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QUIET AND ACCURATE workmanship.
Over 30 years' practical experience. Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced.
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THE EXECUTIVES' WINE CIRCLE. Highest quality wines and spirits supplied at lowest possible prices, Apply now for membership and gain full benefit on purchases for Christmas and all year round. Wine samples and literature supplied free of charge to all members. Save £3 12s, on a dozen bottles of dry or sweet sherry, £2 8s, on brandy, whisky, gin, etc. Orders can be mixed in any variation. Details from Secretary, 55 Lavender Hill, London, S.W.11.

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QUALITY FIRST but QUALITY FAST

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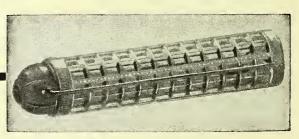
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The world's best and cheapest UNBREAKABLE (polythene) HAIR ROLLER in 5 sizes for professional use by Hairdressers, for use with Home Perms or simply by damping the hair.

Size 0=12 in Cellophane pkt. (very attractive)  $2\frac{1}{2}$ " long 3" Size 1=7Size 2=5 $3\frac{1}{2}''$ 3" Size 3=3with teeth Size 4/T=3 ... (very thick)

Price 15/10 per doz. packets of either +25% P.T. Min. Retail Price 2/S per packet of either size, but for 4/T-16/8 per doz, packets retail 2/6 per packet.

Wholesalers who do not yet stock these renowned fashionable Hair Rollers please contact us for trade terms.

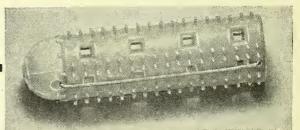


Normal Type No. 0, 1, 2 & 3

C 3163

NEW Model with teeth

No. 4/T



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#### HAETAM LTD.

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Tel.: Blackfriars 3882

METAL DISPLAY STAND for 6 dozen pockets of ossorted counts or ossorted os required without extro charge-

ROBERTS WINDSOR and Otto of Flowers

GILL SOLS





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Christmas Gift Sets from the house of

ROBERTS WINDSOR



only £11-19-6

150w Lamp Extra £1-1-9

## AN IDEAL SELLING LINE FOR YOUR XMAS TRADE



external lever at the back of the ventilating grille.

is done for you!

SHOW YOUR CUSTOMERS THIS FINE NEW PROJECTOR. Demonstrate its exclusive features and amazing light output

alongside other projectors in the same price range—the selling job

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7.1.10141ER E15., 51-55 Gray 5 mm road, Edition, 111-111

Telephone: HOLborn 7311/2/3

Established 1777

# Open Invitation to our Customers .

OUR SHOWROOM is at your disposal. contains an extremely varied and attractive selection of Christmas lines together with an unequalled range of

## **ELECTRIC BLANKETS ELECTRIC RAZORS COMPACTS • BRUSH SETS** COFFRETS, etc. (by leading makers)

plus many novel ideas for Seasonal Gifts . . . Open 10 a.m.—3.30 p.m. daily weekdays

If unable to call, our representative will be pleased to visit you with a comprehensive selection from our stock

## BUTLER & CRISPE LTD.

80-84 CLERKENWELL ROAD · LONDON · E.C.I

Phone: CLErkenwell 3060 (15 lines)

Switchboard open 8.30 a.m. to 4.45 p.m. Automatic recording 4.45 p.m. onwards

RECERCACE CONTROL CONT 

### Now nights are turning cold

#### BIGGER DEMAND

Now's the time your sales go up. Customers who know how effectively Besorbon nips colds in the bud, now come back for more. Sales are maintained by personal recommendation between friends.

#### FREE DISPENSER

Stock Besorbon by the dozen and obtain the attractive counter unit free. By displaying Besorbon boldly now, you'll gain new customers-more profit.

it's big selling for

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Rodine Phosphorus. Rodine Red Squill, Rodine Warfarin (Ready-to-use or Concentrate), and Special Rodine Mouse Warfarin. THOMAS HARLEY LTD., RODINE WORKS, PERTH, SCOTLAND

## BURROUGH'S ABSOLUTE ALCOHOL

JAMES BURROUGH LTD. 1 CALE DISTILLERY LONDON S.E.11

#### Nature's Remedy for Coughs and Colds

#### LOUGHREY'S SYRUP OF IRISH MOSS



#### Soothes and gives IMMEDIATE RELIEF

1/9 size 12/- per doz. 3/- size 21/- per doz.

1/- Pastilles 8/- per doz.

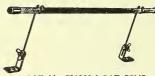
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#### SPECIAL BONUS OFFER

14 to dozen on 3 dozen lots or over on all orders on or before 31st October, 1960. Hand-picked Carrageen Moss Loughrey Brand 1/4 size @ 12/- per doz. TAX FREE. CARRIAGE PAID.

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THE IMPROVED DRY-PAYNE



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with the new PATENT HEAT REFLECTOR

MORE EFFICIENT THAN EVER Keep your windows clear of mist in all weathers. WILL NOTESAG between supports. Also Pegboard Fittings and other Display Equipment.

Write for Leaflets :-

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# "It's extraordinary

how many botanicals, gums, essential oils, spices etc. we have to buy and how frequently they can help us from their comprehensive stock."

I dare not think what we should do without

### BROME & SCHIMMER LTD.

7 LEATHER MARKET, LONDON, S.E.I.

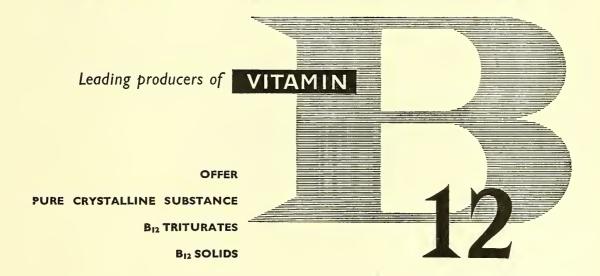
BOTANICAL DRUG IMPORTERS SPICE MERCHANTS DRUG AND SPICE MILLERS

Hop. 0825

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FOR ALL PHARMACEUTICAL PURPOSES

Pure-stable-high biological activity



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# A daily problem solved with





about Calsalettes.

Calsalettes are purely vegetable.

Torbet Lactic Oats 2/I & 4/2 Along with Calsalettes, Torbet Lactic Oats can be sprinkled on breakfast cereal and provides the ideal complement to the treatment of constipation.

TORBET LACTIC OAT CO., LTD.,

25-26 Great King Street, Edinburgh







#### Retail Prices

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6/3-229/3

PARFUM DE TOILETTE

14/3-103/-

TALCUM & SOAP

13/6

Box or Tablet

WHIP

14/3 & 39/8

SPECIAL FOR

14/3 & 39/8

GENTLEMEN

9/8
LE GALION



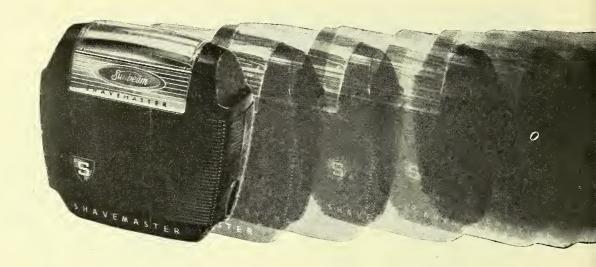


### PARFUMS LE GALION Limited

5-7 RUSSIA ROW, MILK STREET, E.C.2

MONarch 7540 - 9755





# they're really

SALES ARE SOARING! Sunbeam shavers are moving faster than ever. All over the country. And this Christmas they'll really rocket.

BIGGER PROFITS! You make a big profit on Sunbeam Shavers. And the zoom in sales this Christmas will make your profits even bigger than ever.

STABLE PRICE! Steady retail prices mean sound stock investment for you.

TOP QUALITY! There's only one shaver that's supreme. Sunbeam. And the public are catching on to that fact. Fast.

## CASH IN NOW





BIG ADVERTISING! Not just persuasive. Big and persuasive. Dominant spaces. Half pages. Whole pages. In the largest circulation newspapers in the country. Cunningly angled advertising that will send Christmas sales soaring. This is a campaign that can't be overlooked.

# SWING TO SUNBEAM



SHAVEMASTER
Electric Shaver
Multi-Volt Model £11.15.0
Standard Model £10.8.8



ROLLMASTER Electric Shaver Multi-Volt Model £10.12.6 Standard Model £9.12.6



Ever-Ready Case £1.6.9

#### A SUPERB PRECISION 35 mm. CAMERA

- HALINA Anastigmat f/3.5/45 mm. Hard Coated, Colour Cor-rected 3 element lens made from Chance Pilkington optical \*HALINA glass.
- ★ Four-Speed Shutter, 1/25th, 1/50th, 1/100th, 1/200th sec, and B. with Readily Accessible Speed Setting Ring.
- ★ 5ynchronized for flash.
- ★ Double Exposure Prevention.
- ★Coupled Film Transport and Exposure Counter.
- ★Aperture Setting from f/3.5 to f/16.
- ★ Front Cell Focusing from 3 ft. to infinity.

- ★ Automatic Exposure Counting Device from 1-36.
- \* Direct Vision Optical Viewfinder.
- ★Take all standard 3\$ mm. Cassettes.
- ★ Rewind Knob.
- ★5ocket for Wire Release.
- \*Accessory Shoe.
- ★ Depth of focus scale.
- \*All controls visible from above.
- # Easy Loading.
- \* Tripod Bush.
- \* Body Release.

\*ALL METAL BODY

# HALINA AL. J. J. SILBER LIMITED, 40/46 LAMB'S CONDUIT ST., LONDON, W.C.1. HOL 4214/5/6 CHA 2237/3596

# QUALIT CAMERAS at exceptional prices

#### **OUTSTANDING FEATURES OF THE HALINA AI**

- \*For colour or black and white.
- ★F3.5/80 mm hard coated lens.
- ★4 Speeds, B 1/25-, 1/50-, ★Trigger shutter release. 1/100-sec.
- ★ Ground Glass 5creen.
- ★5ynchronised for flash.
- \* All metal body, chrome trim.
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#### 2 CAMERAS IN ONE

12 exposures  $2\frac{1}{4} \times 2\frac{1}{4}$  or 24 exposures. 24 mm x 36 mm on 120 film.

complete with 35 mm Conversion Unit

Leather Ever-Ready Case with Detachable Front £2.7.0





#### HARD SELLING, CATALOGUE-TYPE ADVERTISING

in National Sunday newspapers and big-circulation magazines (reaching a total of 13 million readers) will feature no less than eleven of the most popular Thermos gift lines—Vacuum Jugs Nos. 58, 58Q, 54, 54Q, 29, 29Q and 52, 52Q Vacuum Bowls Nos. 923 and 931 and Vacuum Jar No. 62c. \*



ATTRACTIVE, ATTENTION-COMPELLING SEASONABLE DISPLAY STAND—available free to all Thermos dealers on request\*—will prove another tremendous booster for your topprofit Christmas Thermos sales!

<del><<<\>>>>></del>O<del><<<<<</del>

*Order Form	for Thermos	Vacuum Vesse	Is and I	)isnlav

YOUR NAME
ADDRESS
YOUR WHOLESALER'S NAME
ADDRESS

To Thermos Limited, Seymour Road, Leyton, London, E 10 Please send me items and quantities as indicated under. I understand the Display Stand to be *completely free*.

	Bowl N	0. 923	Bowl N	0. 931	
Jug No.	29Q	Jug No.	52	Jug No.	52Q
Jug No.	54	Jug No.	54Q	Jug No.	29
Jug No.	58	Jug No.	58Q	Jar No.	620

Other models	

DISPLAY YES/NO,

CUT OUT THIS COUPON, FILL IT IN AND SEND IT NOW!

# atrixo hands out the Profits



with a handsome offer and a hard-selling campaign!



#### Lots of lively large-space advertising

has been scheduled for this Autumn campaign . . .

#### sales-stimulating advertisements

will reach millions of potential customers, through the national press, WITH A FREE SAMPLE OFFER!

#### ... and for you, a handsome profit-making deal

Details of this ATRIXO OFFER have already been mailed. If you have not received yours, please write to Smith & Nephew Ltd. It's a big deal you can't afford to miss!

Order your stock of **atrixO** today
-it's a good product
it's a good profit maker!

SMITH & NEPHEW LIMITED . WELWYN GARDEN CITY . HERTS



Showcard available as depicted

Something NEW!

"DAINTY"
Synthetic
SPONGE

with a difference
Perfumed to Last…with

MIGNONETTE
COLOGNE
ICE LEMON
ROSE
in 4 delicate
pastel shades

for only 2/6

SPECIAL CHRISTMAS BONUS OFFER

—1 DOZEN EXTRA SPONGES GIVEN
WITH EVERY 12 DOZEN ORDER

OBTAINABLE FROM LEADING WHOLESALERS INCLUDING

BARCLAYS of Brighton, BUTLER & CRISPE, SANGERS, SUTTONS, GEO. SPENCER, UNICHEM, P. L. JONES (Wholesale) LTD. NORTHAMPTON OR WRITE TO:

NUFOAM PLASTICS LTD. 113 Clarendon Road, W.11 Tel. BAYswater 4123

(EXPORT DIVISION—8 ESSEX ROAD, ENFIELD, MIDDLESEX, Telephone: ENField 6366)
FOR NAME OF YOUR NEAREST STOCKIST



N SEASON OR OUT OF SEASON our aim is to provide you with a courteous and reliable service, coupled with prompt deliveries and personal attention to your orders.

#### ARE YOU PREPARED FOR THE CHRISTMAS TRADE?

Make this your most successful Christmas season by taking advantage of the wide range of gift items we have available from stock.

Comprehensive details and illustrations of our range are available on request.

COSMETICS · FANCY GOODS · SUNDRIES COUNTER LINES · TOILETRIES · ELECTRIC SHAVERS

BOLTS HILL, CHARTHAM, CAMTERBURY, KERST
Tel: Chartham 391 (3 lines)

Grams: Duval, Cha. snam



#### This is why they'll choose PIFCO

The Pifco Electric Hairdryer has the most powerful motor on the market. The larger element heats a greater volume of air — drying hair faster.

Prominent advertisements in mass circulation Sunday newspapers, plus important spaces in magazine gift supplements, will reach millions in Pifco's biggest campaign for any hairdryer.

Colour Range: Petal Pink, Pastel Blue, Lilac and Ivory. Balanced plastic casing with built-in on-off and hot-cold switches for fingertip control.

Each Hairdryer is attractively packed in red and gold presentation box.

Awarded Good Housekeeping Seal of Merit.

Motor loading, 50 watts cold; 550 watts hot. Suppressed against TV/Radio interference. Six foot flex and adaptor fitted. For 200/250 volts AC/DC. No. 1050-74/6d.

**ORDER NOW** FROM YOUR WHOLESALER



PIFCO LTD, Watling Street, Manchester 4 or 36/37 Upper Thames Street, London EC4



#### GALENICAL supplies

this winter



This winter you will be using regular supplies of galenicals, for your own specialities or for wholesale distribution to the dispensing chemists. In either case you will find StaffordAllenS Galenicals to be, as always, of the highest and most reliable quality, and available for prompt delivery. Up-to-date equipment and stringent analytical control ensures this traditional "Standard of Reliability".

liquid extracts
tinctures
emulsions
infusions
liquors
syrups
decoctions
elixirs, etc. etc.

Wholesale only



STAFFORD ALLEN & SONS LIMITED, WHARF ROAD, LONDON, N.I

Telephone: Clerkenwell 1000

Telegrams: Stafalens, Nordo, London

TAS/AL.653



## youll BLESS BAND-AID\* too

They'll bless BAND-AID dressings in the BAND-AID flat tins-an assortment of sterilised dressings, individually wrapped and sterilised, overall perforated for quicker, cleaner healing. Available in plastic or elastic super-stick, in large or small tins, ready for immediate use.

RETAIL PRICE Large tins 1/9 each Small tins 101 each

TRADE PRICE 15/- per doz. 7/6 per doz.



The photograph shown above is one of a series being used in our 1960 Advertising, telling your customers how essentialBAND-AID Dressings are, whether at home, on outings or on holiday.



\* BAND-AID is the registered Trade Mark of Johnson Johnson



#### **'SKYLON' POLYTHENE HOT WATER BOTTLES**

Light in weight and complete with polythene cap and rubber seal, these bright colours are a certain attraction at "point-of-sale"



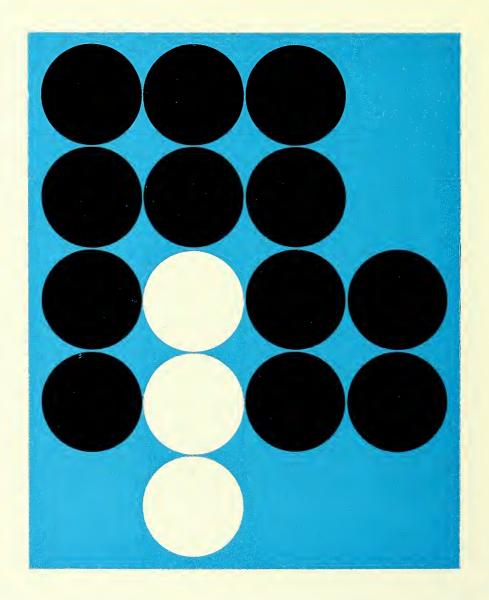
Shown here is one of the two attractively printed polythene film wrappers that always draw attention —the second shows Father in his nightgown and cap!

Ask your Wholesaler to show you the bottles in their printed wrappers and stock up NOW for the "winter-rush"!

ACORN 5073



157 DUKES ROAD, WESTERN AVENUE LONDON, W.3



#### Desogen® Geigy 88% bonus offer

Your winter requirements of Desogen lozenges

A. 90 for 72 B. 58 for 48 C. 28 for 24 Parcel £ 6, 0, 0, £4, 0, 0. £2. 0. 0. Outlay Return £11. 5. 0. £7. 5. 0. £3.10.0. £5. 5. 0. £3. 5. 0. Profit £1. 10. 0.

Bonus terms available only to the Retail Pharmacist through your local Mr. Geigy and

direct from Wythenshawe

#### throat lozenges

antiseptic

- 1. The ethical lozenge for your professional recommendation
- 2. Attractive pack for effective display
- 3. Competitive price 2/6d. for 24 lozenges
- 4. High profit 88% on parcel "A"

Each lozenge contains:

0.5 mg of (Dodecanoyl-N'-methyl-aminoethyl)-(phenyl-carbamyl-methyl)-dimethylammonium chloride

Geigy Pharmaceutical Company Ltd. Wythenshawe, Manchester, 23

Pharmaceutical and medicinal preparations of the highest quality

**BRIGHTON** · **ENGLAND** 

## metal and plastic TIBES



Metal Box metal and plastic tubes are available in a quite exceptional range of shapes and sizes, with a wide variety of closures each designed to keep the contents in thoroughly good condition. All—up to 34 fluid ounces in capacity—are light (lower freight charges), virtually unbreakable (no breakage claims) and can be decorated in superb

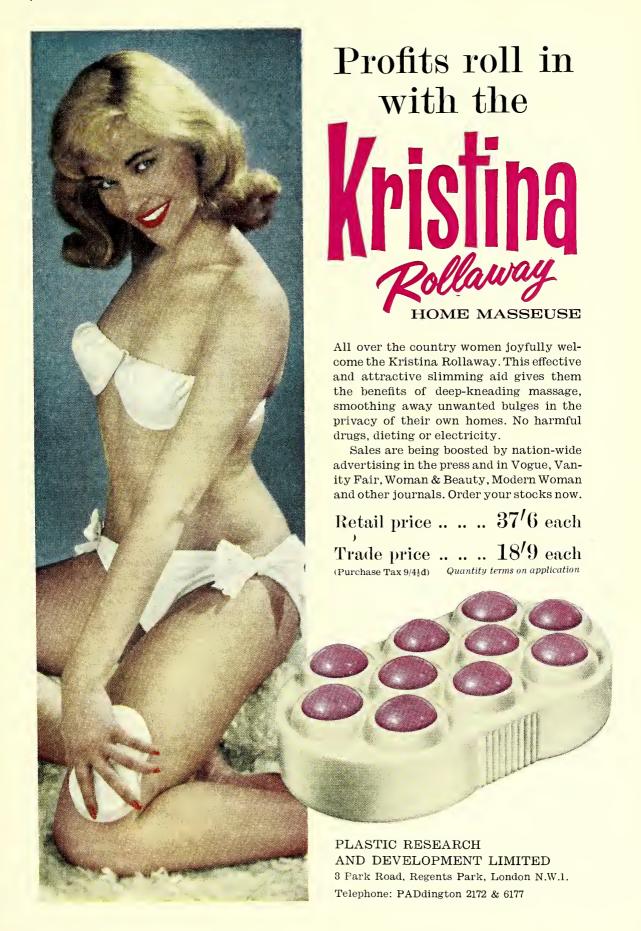
multicolour printing (for increased sales appeal).

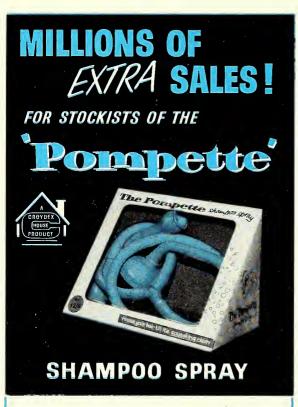
Metal Box also offers freely three unrivalled services: a research service to test the compatability of the tube with your products; a container design service to design special tubes for special requirements, and studios to carry out surface design.

METAL BOX

THE WIDE RANGE OF SIZES CATERS FOR ALL REQUIREMENTS, FROM BULK PACKS TO SAMPLES. Aluminium tubes. Diameters from 12-5mm to 75mm with depths from 1.5 to 7 times the diameter, maximum 230mm.

Plastic tubes. Diameters from 9.3mm to 36mm and depths from 25.4mm to 89.7mm.





Pompette in the Women's Interest and Home Magazines means EXTRA PROFITS FOR YOU!

More than 6 million readers will see the

#### Pompette

advertising during November and December

Based on a widespread National coverage and appealing to all age and income groups, Pompette will be asked for Everywhere!

Look at this bold advertising campaignhalf pages in 9 large circulation magazines:

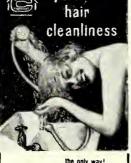
WOMAN'S STORY . EVERYWOMAN .

WOMAN & HOME • MY HOME • FLAIR • SHE **VANITY FAIR • TRUE STORY • TRUE ROMANCES** 

Make sure you have ample stocks to meet this tremendously increased demand.

Order through your usual wholesaler or in case of difficulty write to :-THE NEW CROYDON RUBBER Co. Ltd., Croydex House, 36 Mitcham Lane, London, S.W.16. Tel: STReatham 0171/4





**Pompette** 



**ENSURES THOROUGH RINSING** 



## a Best-selling Christmas Gift!

The 'Chiltern' by Acme, is a completely new and revolutionary development in vacuum ware - combining all the advantages of a vacuum flask with the elegance of fine English porcelain-ideal and practical at all timesand yet so elegant.

- 4 colour range, Black and White, Maroon and Gold, Pastel Blue or Lime Green.
- 16 Fl. oz. capacity—ideal for Hot or Cold drinks anytime! \*
- The 'Chiltern' jug uses a "doubly tested,' Acme vacuum bottle—fully guaranteed.

The Ideal Gift at an Ideal Price

Retails at Only



Chiltern the

<del>₹₿₽₹₩₩₩₩</del>

For full details of literature and agents, write to:-



PHOENIX WORKS, BRIDGEND, TELEPHONE 3984 GLAM.

#### A lucrative line in luxuries!

#### **Champagne Bubble Baths and Bath Salts Novelties**

Every one a money-spinner—that is the proved and tested prescription at Jean Sorelle. All our packages . . all our products are designed to keep your till-bell ringing.

Advertising too! We buy space in the most

influential women's journals to help you sell. This present-giving season will therefore bring 16,094,945 advertisements for Jean Sorelle products to the notice of your past, present, and and potential customers in:

Today Woman Woman's Own Woman's Realm Woman's Day **Tit-Bits** Everywoman Modern Woman

Housewife She Honey Home Woman & Shopping Woman & Beauty **Vanity Fair** 

Country Life

The Oueen Woman's Mirror Woman's Illustrated The Lady The Tatler Woman's Journal Date

Please telephone or write for our Representative to call and show you our range of exclusive bath-time luxuries in their irresistible novelty presentation packs. Here we show only a few.



Sorella STAR Bath salt tablets. 6 tablets on foil star, silver and red, blue and gold.
Cost 17/6 a dozen, P.T. 50%.
Retail 2/11.



S.O.2 New Devon Violet perfume. Attractive gift pack. Cost 40/6 a doz P.T. 50%. Retail 6/9.



SO.3 Plastic SWAN filled with 6 delightfully perfumed Bath Salt tablets, assorted in 4 colour combinations. Boxed individually. Cost 28/6 a dozen, P.T. 50%. Retail 4/9.



SO.5 New attractive wicker FLORAL BASKET containing 7 compressed Bath Salt tablets, decorated with artificial flowers and silk bow. Cost 41/6 a dozen P.T. 50%. Retail 6/11



SO.8 New BOUQUET OF ROSE containing 7 compressed Bath Salt tablets decorated with matching flower. Packed in artistically designed box. SO.9 New BOUQUET OF CARNATION finished as above. Cost 27/- a dozen, P.T. 50%. Retail 4/6.



SO.20 Delicately perfumed BATH CUBES packed in attractive printed carton holding 6 cubes with special foil Christmas wrapper. In four perfumes:—SO.20—Gardenia Dew. SO.21—Devon Violets. SO.22—English Lavender SO.23—Eau de Cologne. Cost 13/6 a dozen, P.T. 50%. Retail 2/3.



SO.38 Junior size Sorella Champagne BUBBLE BATH, sufficient for 3 baths. In cut-out cartons. Cost 20/- a dozen, P.T. 25%. Retail 2/11. Other sizes: 1/6, 5/9, 8/3, 12/11.



SO.51 New PYRAMID pack SO.51 New PYRAMID pace containing 3 miniature size bottles, one of each perfume: Jasmine, Bouquet, Pink Rose, Cost 32/7 a dozen, P.T. 25%. Retail 4/9.

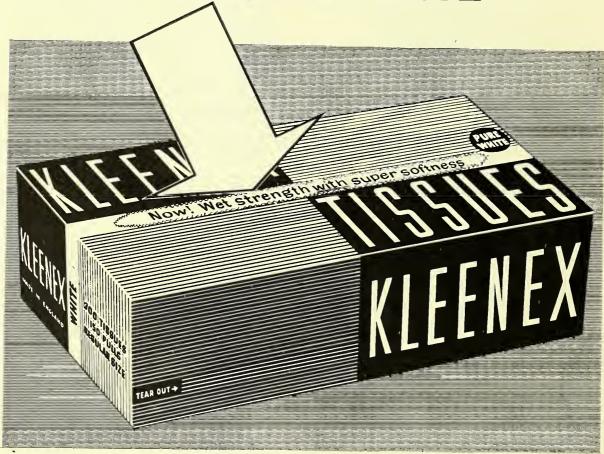
Order from your wholesaler or direct from:

Jean Sorelle Limited, 21-22 Turle Road, London, N.4 Manufacturers of the original Champagne Bubble Bath

Telephone: ARChway 2736/2771

Telegrams: Promella, Finspark, London

# Something new has been added to KLEENEX



Kleenex is the only tissue to give your customers the two most important qualities—strength and softness. Kleenex is the only balanced tissue, because . . .

#### **NEW KLEENEX\***

TISSUES

(and only Kleenex) offers your customers
WET-STRENGTH WITH SUPER SOFTNESS!

New Kleenex is the perfect tissue

#### **LAUNCHED BY THIS HEAVYWEIGHT** T.V. CAMPAIGN!

On all T.V. Stations— October to March, Three 30second commercials a week ensure your customers hear the catchy new jingle-'Need a tissue? Use a Kleenex!' -over 160 times!

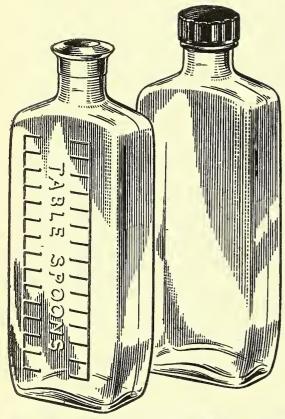


#### **KLEENEX GIFT PACK!**

Remember—the attractive Kleenex Gift Pack is a best seller for Christmas and other special occasions. Ask now for full details.



#### The **Beatson** Medical



#### Be sure to specify BEATSON

AVAILABILITY-THE BEATSON MEDICAL

Cork Mouth—Ungraduated. 1, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz. Graduated Teaspoons. 2, 3, 4 oz. Graduated Tablespoons. 4, 6, 8, 10, 12, 16 oz. Parts. 6 oz. in 6 parts. 8 oz. in 8 parts. 12 oz. in 12 parts.

Screw Neck—Ungraduated. 1, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz. Graduated Teaspoons. 4 oz. Graduated Tablespoons. 6, 8, 10, 12, 16 oz.

Screw Neck-AMBER now available. 4, 8, 16 oz.

"The Sign of a



Good Bottle"

BEATSON, CLARK & CO., LTD.

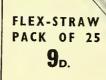
GLASS BOTTLE MANUFACTURERS ROTHERHAM Established 1751 YORKSHIRE

#### FLEX-STRAW

#### the new Drinking Straw that bends to any angle!

#### IDEAL FOR PATIENTS AND CHILDREN

Hospitals were quick to see the main advan-tages of 'Flex-Straws': they bend to any angle, enable relaxed drinking (without spilling) . . . even in bed. Patients of all ages—intrigued and happy with the 'Flex-Straws' they used in hospital—naturally wanted them again at home. They found that 'Flex-Straws' won't go soft in soups and other hot liquids. Why? Because of a special high-temperature wax treatment. It makes 'Flex-Straws' far more durable than ordinary drinking straws. Critical women's editors (who tried 'Flex-Straws') described their advantages in the
"Daily Telegraph," "Daily
Herald," "The Sunday
Times," the London
"Star," etc., thus creating interest and



Manufactured by: HYGIENIC DRINKING STRAW CO. LTD.

demand for

'Flex-Straws.

College Road, Fishponds, Bristol.

Telephone: Bristol 653268 & 654205 Telegrams:
DRINKRITE FISHPONDS BRISTOL



#### 'Educating Jane'

## "Figaro shavers on 14 days trial . . .

all very well, Mr. Hargreaves, but it depends whether it's a free trial for us or the customers. Supposing someone thinks he's just going to get a fortnight's free shaving!"

"It's free to us, Jane, and we can pass it on to our customers. When a Figaro goes out on trial it almost always means a sale for us. Even if it does come back into stock requiring attention, Ever Ready will give it a full factory service for us free of charge. Now where are you going?"

I'm moving that Figaro display to the front of the window,

Mr. Hargreaves—right away!"

FIGARO II 10 gns. Tax Paid FIGARO II £8.10.0 Tax Paid FIGARO III £7.2.6 Tax Paid







#### HERE IT IS!

What you've been waiting for...
The ROSE·KIA-ORA
AUTUMN BONUS OFFER



12 bottles of SUNCRUSH ORANGE free (normal price 29/-) with every six case order for SUNCRUSH or KIA-ORA placed between OCT. Ist and OCT. 31st 1960 inclusive

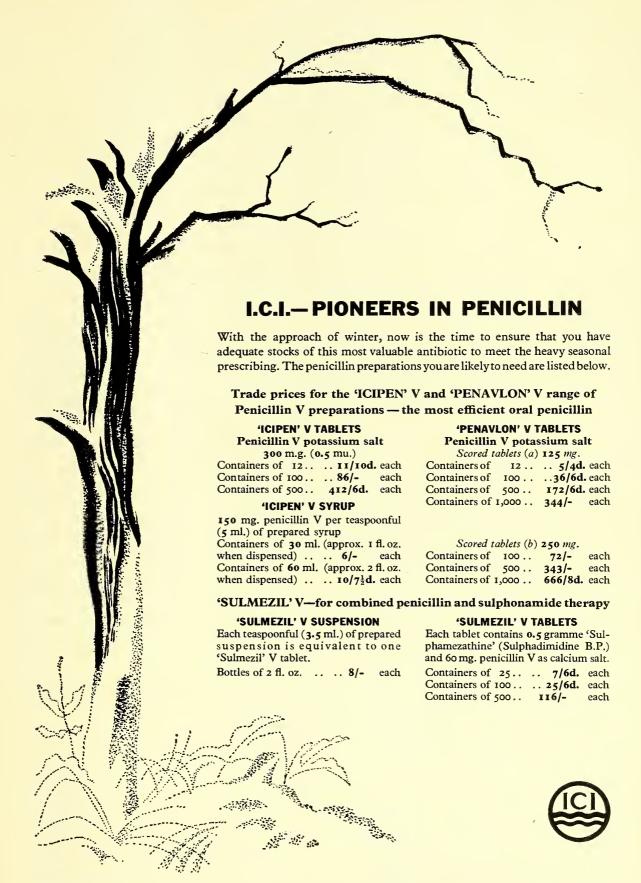
SUNCRUSH

KIA-ORA

Orange · Lemon · Grapefruit · Lemon Barley

Orange Squash · Lemon Squash · Grapefruit Squash

(Rose's Lime Juice and Fruit Squashes are not included in this offer)



## A reminder for your 'wants list'

#### falapen

Your wholesaler has it in cartons of 100 foil-pack tablets at 55s. net.



DUNCAN, FLOCKHART & CO. LTD., EDINBURGH 11

378



No Worry over Winter.

Not with Radio Malt. Children enjoy taking this vitamin supplement and three generations of mothers have relied upon it to build up resistance of their children against winter ailments. Order your stocks now on the special bonus terms.

#### Winter bonus terms for PADIO MALT

TRADE RETAIL

1 lb. jars 2/5½ 3/6

1 lb. on orders for 24 lb. assorted

2 lb. jars 4/4 6/3

2 lb. on orders for 36 lb. assorted 6 lb. on orders for 72 lb. assorted

THE BRITISH DRUG HOUSES LTD. LONDON N1

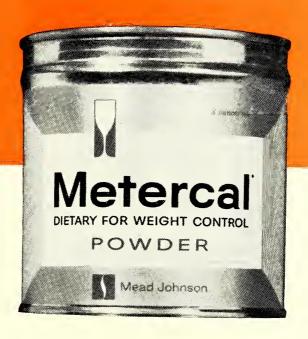




WHILE YOUR CUSTOMERS

LOSE IDS WITH

## Metercal





The natural way of losing weight...

## What is Metercal?

- Metercal, already greatly successful in the United States, is an entirely new concept in weight control.
- Metercal gives your customers "metered calories." It's a complete food, taken in place of ordinary meals.
- Each tin contains 900 calories ... the complete day's diet.
- Nutritionally sound . . . gives all essential elements. Contains no drugs, appetite depressants or "bulking" agents.
- Customers can lose up to ½ lb. a day, sometimes even more, without feeling hungry.
- Metercal, a powder, mixes with water to make a delicious, sustaining drink.
   Comes in 3 delicious flavours chocolate, orange and vanilla.

#### What is the market?

You only have to look around you—in your shop, in the street, amongst your friends. How many overweight people can you see? A great number. And how many of them like being overweight? Very few. How many would be delighted to find a safe, sure method of controlling their weight?—nearly all of them. They—and millions of others like them all over the country—are the market for Metercal.



### **HIGH VOLUME=HIGH PROFITS**

- Sells at 8/6 per tin, and customers on a Metercal diet will use one tin per day.
- Big repeat sales possibilities.

LOOK AT THE PROFITS THESE INTRODUCTORY OFFERS BRING YOU:

#### 1 CASE\* ORDER

£3.11.0

FREE DISPLAY BONUS

1 tin (8/6)

YOU SELL AT

£5.10.6

Your profit

£1.19.6

*35.75*%

#### 2 CASE\* ORDER

YOU PAY

£7.2.0

**DISPLAY BONUS** 

3 tins (25/6)

YOU SELL AT

£11.9.6

Your profit

£4.7.6

38.2%

#### 3 CASE\* ORDER

YOU PAY

£10.13.0

DISPLAY BONUS

6 tins (£2.11.0)

YOU SELL AT

£17.17.0

Your profit

£7.4.0

*40.4*%

**※ PACKED IN CASES OF 12 TINS AS FOLLOWS:** 

a)  $4 \times 3$ -flavour starter packs b) Four tins each, chocolate, orange, vanilla c) Twelve tins, any one flavour

SEE OVER



#### Order from your wholesaler today

Continuous national advertising will support the display in your pharmacy. Window and counter material available from Mead Johnson representative—or write to Mead Johnson.



#### Heavily advertised and promoted!

Intensive national advertising breaks on 25th September. Metercal advertisements will be exposed to 25,000,000 people on TV and approximately 60,000,000 advertisements will appear in the following newspapers and magazines!

DAILY EXPRESS DAILY MAIL DAILY TELEGRAPH

SUNDAY EXPRESS SUNDAY TIMES THE OBSERVER

WOMAN

SHE

WOMAN'S OWN READER'S DIGEST VANITY FAIR VOGUE

**EVERYWOMAN** 

WOMAN & BEAUTY

MODERN WOMAN

WOMAN'S JOURNAL

#### Sell the 3-tin "Starter pack"

Introduce your customers to Metercal's three flavours (chocolate, orange, vanilla). Three tins will enable them to prove to themselves that they do lose weight. These customers, once on the Metercal programme, will bring you repeat sales week after week.

The 3-tin starter pack makes immediate profits too:

#### **METERCAL 3-TIN "STARTER PACK"**

You pay - - - 17/9 You sell at - - 25/6

YOUR PROFIT PER SALE 7/9 PLUS YOUR FREE DISPLAY BONUS

#### Order now!

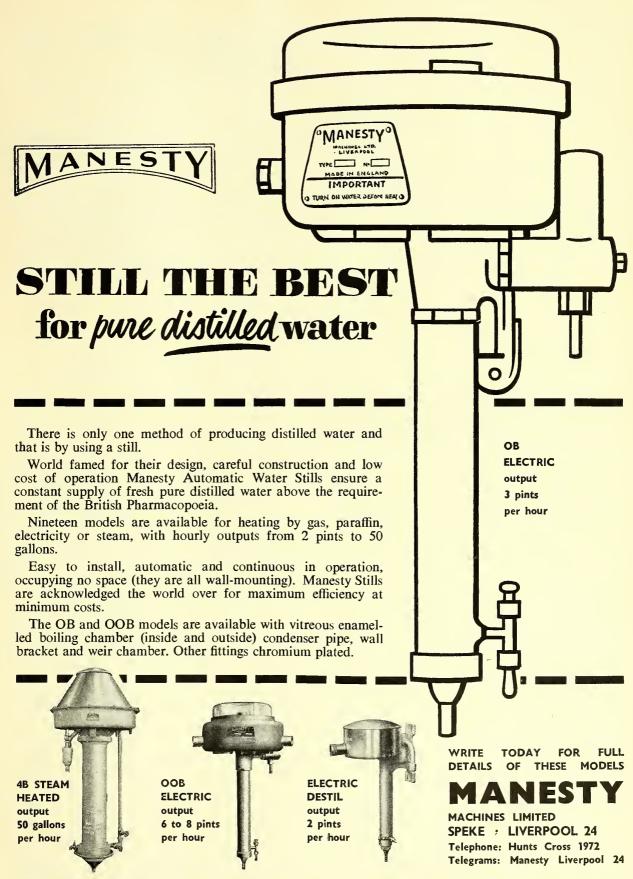
GAIN £££ while your customers lose lbs

STOCK AND DISPLAY METERCAL TODAY



Mead Johnson





TABLET MACHINES · PUNCHES & DIES · COATING PANS · GRANULATORS MIXERS · COMMINUTORS



## alphosyl

LOTION

## Now being widely prescribed for PSORIASIS

A full scale campaign to the medical profession is now taking place, and never a day goes by without

gratifying results of what Alphosyl is achieving in cases of Psoriasis. Available in 8 fluid oz. bottles

ALPHOSYL' LOTION



STAFFORD-MILLER LTD.

HATFIELD · HERTS

By arrangement with Reed & Carnick Inc.

## nicotex

another good line for the chemist...

Cleans
away
unsightly
stains
from the
hands



Easily removes

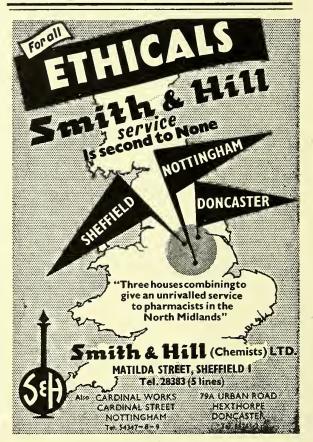
NICOTINE · FRUIT · VEGETABLE INK and TYPEWRITER INK and other stains from hands, fingers and nails.

★ packed in attractive display outers each containing six jars:
Retailing at 3/6d
22/- Per dozen + P.T. 50%

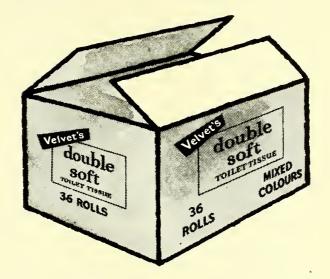
Maria St. George

LIMITED

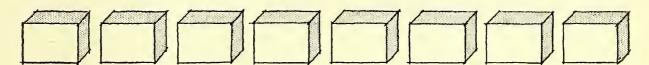
12 PHILLIMORE TERRACE, W.8. Tel: WEStern 6534



#### Now this one case



#### takes the place of eight...



## because it contains the equivalent of single and double packs in all four colours

Snow White Petal Pink Sky Blue Primrose



- Only Velvet offer full size coloured soft 2-ply toilet rolls you can sell at 1/3 each or two for 2/4—so that you have all the advantages of double packs without having to stock them.
- And with Velvet you can make more profit, too. You still make 8d. when you sell two rolls...and you make as much as 5d. when you sell a single roll.



Cases containing 36 rolls of all one colour are, of course still available VELVET CREPE PAPER CO. LIMITED, Woodside End, Alperton, Middlesex

## YOU MUST STOCK THERMALUX! Thermaller

Thermalux products have the backing of:

- \* A second-to-none reputation for safety and reliability, built up over 25 years
- \* A vigorous press advertising campaign in leading monthly magazines and trade journals
- \* A FREE stereo service for local press advertising
- \* Handsome descriptive counter leaflets, available FREE
- \* Attractive full-colour 3D wooden displays (26" x 22½") incorporating a corner section of a Thermalux Overlay available FREE
- \* FREE Price-list Showcards
- \* A 48-HOUR AFTER-SALES SERVICE

Please send for full details of trade terms, etc. to:

#### THERMALUX ELECTRICAL PRODUCTS LIMITED

HALL STREET · HALIFAX 3 · YORKS



#### THE THERMALUX ELECTRICALLY-HEATED MATTRESS OVERLAY

The aristocrat of bed-heaters, made to the strictest standards from the finest materials. For those who insist on quality and fine craftsmanship. Safely made for over 25 years.

YOU CAN'T GO WRONG WITH THERMALUX!



#### "SLEEPWELL"

#### **ELECTRIC BLANKET**

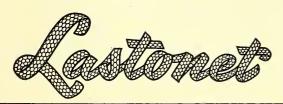
Now firmly established, the "Sleepwell" offers Thermalux quality to those who seek the best at a more modest price than the Overlay, Made to B.S. 2612 requirements.



# and Complaint:



A READY-MADE SALE is assured by this new Lastonet product. Lastonet Cream is a mild and soothing balm, for relieving skin irritations, specially formulated for wearers of elastic hosiery. Show the Display Outer on your counter (supplied with every dozen) and get YOUR share of this rapidly increasing business. ORDER NOW. Lastonet Cream costs you 22/- per doz., including P.T., and retails at 2/9d. per tube.



PRODUCTS LTD

Redruth Cornwall



For

## SORE GUMS

**MOUTH ULCERS** 

ETC.

Dentists have written praising the virtues of this excellent product, and recommend it to their patients.

It presents a splendid opportunity to the pharmacist who appreciates the demand there is for this unique line.

#### PRICES

4oz. bottles Trade 18/- + 4/6 P.T. Doz. Retail 2/8 Bottle (Minimum order 6.) Bonus available.

Cuxson, Gerrard

Cuxson, Gerrard

E Co. Ltd.

BIRMINGHAM

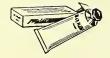
You owe it to yourself to ensure that the package you sell has consumer acceptance, builds up consumer goodwill, and reflects the integrity of your organisation.

Let our experience in the manufacture and packing of



**POWDERS** 





**OINTMENTS** 

assist you to achieve this object and increase your sales this year and every year.

You're in safe hands when



do the job

PHARMACAL SUPPLIES LTD.

Pharmaceutical Manufacturers

GREEN LANE, HOUNSLOW, Middlesex

Telephone HOUnslow 5122

## Social Official

#### **FENOX**

NASAL DROPS



### SEPT. 1st TO OCT. 8th

#### STREPSILS

ANTISEPTIC LOZENGES



From September 1st until October 8th inclusive, combined or separate orders for Fenox Nasal Drops and/or Strepsils Antiseptic Lozenges will be charged at special rates. Full details of these offers have been sent to all Retail Chemists and further copies are available from the Wholesale Division, Boots Pure Drug Company Limited, Station Street, Nottingham or 71 Fleet Street, London, E.C.4.

Order Now!

ORDER NOW FROM YOUR USUAL WHOLESALER







When debilitating illness brings loss of appetite and inadequate food intake, PALADAG\* can often provide the stimulus needed to restore normality.

PALADAC is a pleasant orange-flavoured liquid containing the principal fat and watersoluble vitamins, including a high proportion of appetite-promoting vitamin B<sub>1</sub> and other B complex factors, necessary for growth and maintenance of normal body functions.

#### PALADAC

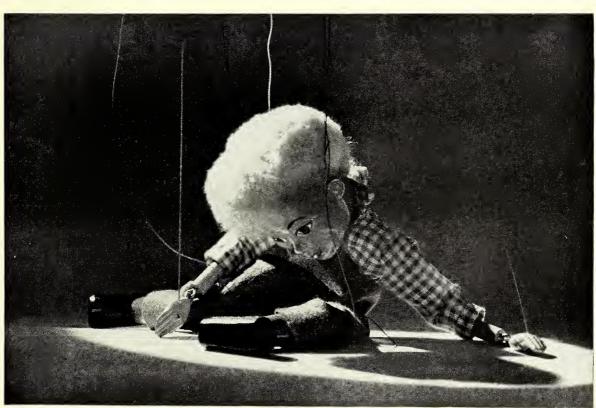
liquid vitamin supplement



Dose: one teaspoonful daily. Supplied in bottles of 4 and 16 fl. ozs. \* TRADE MARK



PARKE, DAVIS & COMPANY · HOUNSLOW · MIDDLESEX · TEL: HOUNSLOW 2361 Inc. USA Liability Limited



WPS-1079





F



#### TOOTHBRUSHES GO GAY...

and so will your sales when you see how children go for these cheery, colourful holders! Each character has individual appeal. Delivery from stock.



Wholesale and Export only
ONE OF THE DUNBEE
GROUP OF COMPANIES

HEATHCOAT HOUSE . SAVILE ROW . LONDON W1

COMBEX STOCKISTS: D. C. Hamilton Limited, Broughton Street, Waterloo Road, MANCHESTER 8 · Bremner-White Limited, Wholesale Chemists, Cails Yard, Haymarket, NEWCASTLE-ON-TYNE, 1 · Hill's Pharmaceuticals Limited, Spring Bank Works, Nelson, LANCASHIRE H. Howard & Company, 25 High Street, Hornsey, LONDON, N.8 · Herbert Ferryman Limited, Cobden Bridge, SOUTHAMPTON



Free Display Material! Attractive display pieces are available to you free. You can link up your display with the advertising campaign and clinch the sale. Write for details, to:—Sales Promotion Department, Remington Electric Shaver Ltd., 26-40 Kensington High Street, London W.8.



#### PROMOTE YOURSELF TO BUMPER CHRISTMAS PROFITS!

The Remington Shave is the world's finest shave. Every man who cares about his appearance wants it for Christmas. That means many, many gift buyers will be out to buy a Remington. Make sure they buy them from you!

Now's the time to stock REMINGTON—display REMINGTON!

李春春 美多秦 家谷俊 美子



Even bigger sales for PIFCO Electric Blankets this winter after last year's success. New! The CELEBRITY single and double sizes, with price appeal between the FAVOURITE and POPULAR.

#### **SUNDAY EXPRESS**

1-page, 11" x 3 cols. Nov. 13, 27, Dec. 4.

#### **PEOPLE**

11" x 3 cols. Nov. 13, 20, 27.

#### **SUNDAY PICTORIAL**

MORE ADVERTISING REACHING MILLIONS IN MASS CIRCULATION MEDIA!





# IN ELECTRIC BLANKETS GET YOUR SUPPLIES NOW FROM YOUR WHOLESALER



#### FAVOURITE

Soft and fleecy cotton blanketing with broad satin ribbon binding.

Single 48" x 26" 65/6 retail Double 48" x 40" 85/- Single 3-heat 85/- Double 3-heat 111/6



## POPULAR

Rayon/wool blend blanketing with deep pile. Broad satin ribbon binding,

Single 60" x 24" 94/6 retail Double 60" x 42" 142/-Single 3-heat 116/-Double 3-heat 169/9



#### CELEBRITY

New large-size edition of the fabulous Favourite, biggest seller in the PIFCO Electric Blanket range.

Single 60" x 24" 75/- retail Double 60" x 42" 99/6



#### DE LUXE

100 per cent pure wool with broad satin ribbon binding.

Single 62" x 28" 170/~ retail Double 62" x 42" 246/-

## ELECTRIC HEATING PAD

Gay candy stripe Sanforised cover removable for easy laundering Single heat 57/6 3-heat 84/6

PIFCO SALES FEATURES . . .

ALL PIFCO Blankets are constructed to B.S. 2612, and carry the Kite Mark and the British Safety Council Seal. Fitted double pole safety switch. Helically wound element stitched in position for even heating. Attractive colour range: Petal Pink, Eau-de-Nil and Gold. All Blankets fitted with eyelets and tape provided for fastening to the mattress. Voltages 230/250 volts AC/DC. (De Luxe AC only). Also available for 200/220 volts.

ALL BRITAIN IS SOLD ON PIFCO ELECTRIC BLANKETS

If any difficulty write to:

PIFCO

Pifco Ltd., Watling Street, Manchester 4 LONDON SHOWROOMS 36/37 Upper Thames Street, E.C.4

## NOW TAKE A GOOD LOOK AT

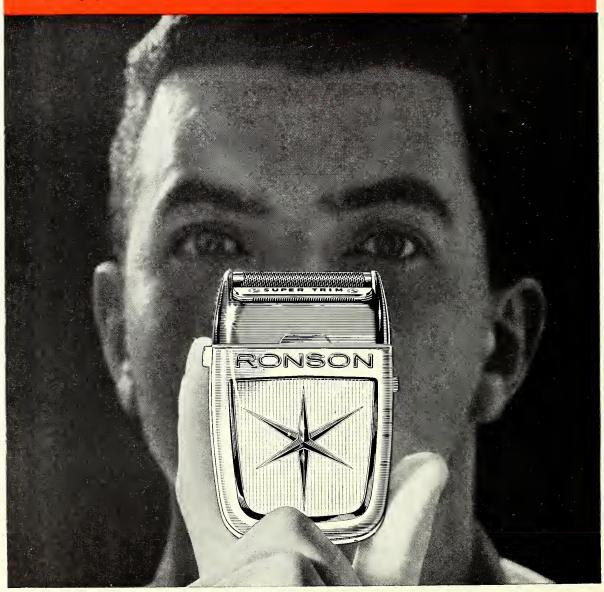
# THE NEW RONSON C·F·L'S GREAT NEW CAMPAIGN!

This is a campaign that, beginning in October, builds up a tremendous momentum and explodes with a gold-star impact in the immediate pre-Christmas selling period.

This is a campaign which uses Press, Television and Display material brilliantly to ensure that

the Ronson C·F·L·—the most handsome shaver on the market — is this year's outstanding Christmas gift.

This is an up-to-the-minute campaign for an up-to-the-minute product. It can make this *your best* Ronson Christmas ever.



## DID YOU KNOW THAT MORE RONSON SHAVERS ARE BOUGHT AS GIFTS THAN IN ANY OTHER WAY



Give him the shaver with the golden touch

PRESS: Big spaces in all the popular Sunday papers begin in October, build up to a climax nearer Christmas. In addition, there's a special colour advertisement in the December Reader's Digest.

TV: With four weeks to go, TV lends its enormous weight. On all stations, a hardhitting half-minute commercial will appear every second day right up to Christmas.

RONSON PRODUCTS LTD., LEATHERHEAD, SURREY TEL: LEATHERHEAD 4444

That's the logic behind this new Ronson campaign. It can be a gift for you, too. Make the most of all this as early as possible. Make this your best Ronson Christmas ever.



DISPLAY: To help you sell over the counter, there's this eye-catching display crowner and attractive box-sleeve-both designed on the theme 'Ronson for Christmas'.





Still . . . the World's **Foremost Hot Water** Bottle . . .

> STANDARD MODEL RETAILING AT

SUPPORTED **EXTENSIVE NATIONAL ADVERTISING** 

#### WITH THE SUBA-SEAL OFFERS RANGE WIDEST



Streamline 86



Comet



Gaywarm



Dog Toby 7'11



Streamline Cot 3'11 Suba Luxe 24'11



BUILD UP YOUR SALES with "SUBA-SEAL"

\* FOREMOST FOR VALUE

\* FOREMOST FOR QUALITY

\* FOREMOST FOR SAFETY

\* FOREMOST FOR PROFIT

\* FOREMOST WITH CUSTOMERS

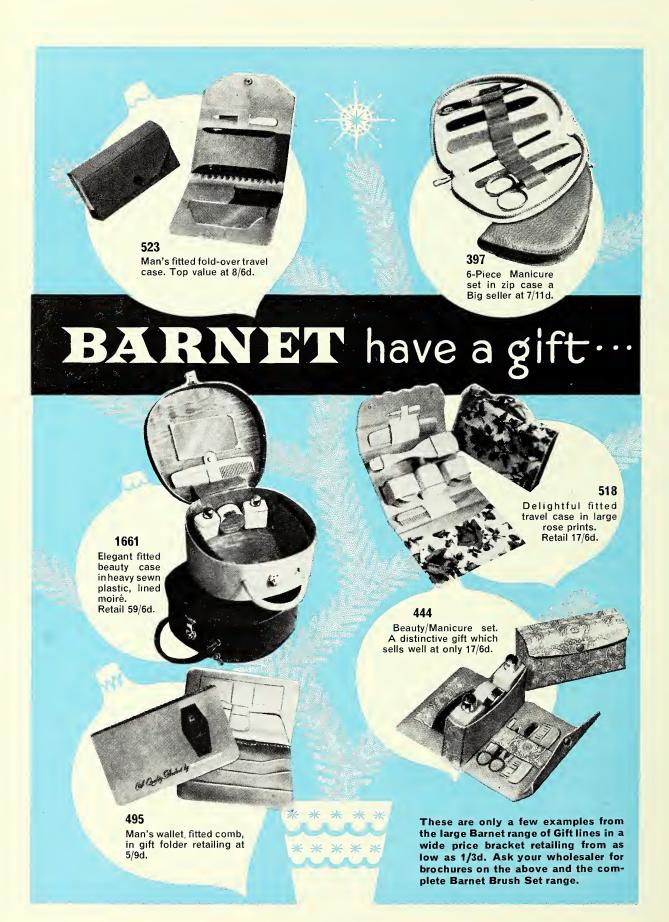
FIRST with the Trade 'FIRST with the Public!



THE MOST TRUSTED HOT WATER BOTTLE



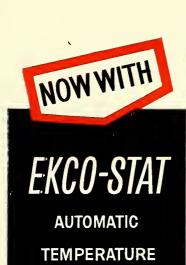
WILLIAM FREEMAN and COMPANY LIMITED
SUBA-SEAL WORKS · STAINCROSS · BARNSLEY · YORKS · Tel. 4081





# EKCO'Warm-Glow' Electric Blankets







CONTROL

Not just a conventional two-or-three position device but an illuminated temperature controller giving an infinitely variable choice of settings — automatically compensating for changes in room temperature or mains voltage. The 'Ekcostat' is fitted to—

'SHERBORNE',

'DORCHESTER' and

'DORCHESTER TWIN'
blankets.

\*Also supplied separately for fitting to existing Single-Heat (A.C. Mains) electric blankets.

Price £1. 12s. 6.

## A WIDE RANGE

Ekco 'Warm-Glow' Electric Blankets come in a wide range of sizes and prices to suit all people and purses:—Single-heat popular range from £3.7.11.

Single-heat De-luxe woollen range from £5.12.2.

Blankets complete with 'Ekco-stat' from £7.4.1.

Pre-selected temperature control range from £10.0.9.

# -FEATURED IN NATION-WIDE ADVERTISING

- Dominant 'Daily Express' half page, Oct. 14th, dramatically featuring 'Warm-Glow' Blankets.
- Attractive advertisements in Everywoman, Good Housekeeping, Housewife, House Beautiful, Homes & Gardens, House & Garden, Home, Ideal Home, Woman's Journal, Reader's Digest during October and November.
- Commercial TV Magazine Features.
- Commercial TV 7-sec spots.
- PLUS attractive showcards and literature for you to linkup with this impressive publicity.

So stock EKCO
'Warm-Glow' Blankets
—the safest blankets
you can sell!

E.K. COLE LTD · 5 VIGO STREET REGENT STREET · LONDON W.1

Depots at Wembley · Birmingham · Bristol Glasgow · Manchester · Belfast



## You've such a valuable friend in...

You've such a valuable friend in Philips. For Philips make so many different products — all so easy to sell! Yes, millions of families have learned that Philips means unsurpassed dependability and technical mastery combined with world-beating value. So get bigger-than-ever business with Philips — the friend of the family!

## PHILIPS ELEGTRIG Whiskette

Invaluable, inexpensive whisk for all light mixtures — from cocktails to baby foods, mayonnaise to meringues. Revolutionary design. Strikingly easy to operate and clean. Two-tone styling.

Only **£3·18·9** (tax paid)



## PHILIPS electrically heated Blankets



The Standard range: made in soft, fleecy woollen mixture in gold or pink. Heating element covered in tough, flexible plastic. Flame-proofed throughout for perfect safety. Handy on/off switch.

60" x 25" **£5·4·3** (tax paid) 60" x 43" **£7·12·9** (tax paid)

The de Luxe Range: unsurpassed for comfort and safety. Made from 100% pure wool in soft peach shade. Adjustable 3-heat temperature control.

60" x 28" £7.2.6 60" x 48" £11.4.0 (both tax paid)



PHILIPS

## PHILIPS PHILISHAWE

... a superb shaver to boost your sales. For this Standard-volt 'Philishave' retails at only £7.7.0, and has all the advantages of 'Philishave' Rotary Action! Only Rotary Action shaves the bristles the very way they grow. Result? Only the 'Philishave' shaves so close so comfortably - and sells so effortlessly. Keep ahead of your customersorder in good supplies now!

The Standard-volt 'Philishave' (AC/DC 200-250v.)

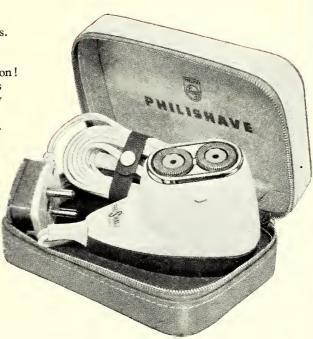
£7.7.0 (tax paid)

And, of course, you'll also need . . The Dual-volt 'Philishave'

£8.9.9 (tax paid)

The Battery model 'Philishave'

£7.12.9 (tax paid)



## LIPS HEALTH LAMPS

-SO MUCH IN DEMAND FOR TREATING SO MANY AILMENTS!

Philips Infra-red "Infra-phil" is invaluable in all

cases of arthritis, rheu-

matism, fibrositis and

muscular pain. Used in

the medical centres at the

Olympic Games for the

treatment of pulled and

strained muscles.

£3.3.0



Philips Ultra-violet "Ultraphil" is most useful in the treatment of "rundown" conditions and many skin troubles, such as psoriasis and acne. It radiates ultra-violet light only on the most beneficial wavelengths.

£5-17-6

with goggles.

de Luxe model: £4.4.0

Philips Health Lamps, made in Holland, are only available to customers who have a medical certificate.

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# -the friend of the family



## IN THE PHARMACEUTICAL INDUSTRY



#### DE LAVAL CENTRIFUGAL CLARIFIERS

The quickest—most efficient and most economical way of CLARIFYING LIQUIDS!

All stainless steel contact where required, and hermetic construction available for materials where no air contact is permitted. Capacities from 1 g.p.h. upwards.

A few typical products, in the preparation of which

De Laval Clarifires are used by many leading manufacturers, include:-

Gland Extracts

Insulin

Riboflavin

Liquorice Extracts Senna Extracts Morphine

Vitamin B12 Vaccines

Senna Extracts Quinine
And for capacities up to 6,600 g.p.h.

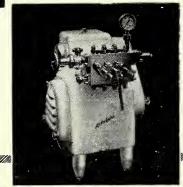
the new Self-Cleaning Clarifiers with automatic solids ejection – fully automatic control and no shut-downs for cleaning.

DE LAVAL All Stainless Steel Self-Cleaning Clarifier.

## DE LAVAL ASTRA HOMOGENISERS For your Pharmaceutical Emulsions

Capacities 55-2,200 g.p.h. Pressures up to 4,000 p.s.i.

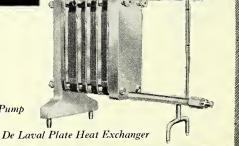
> DE LAVAL 100 g.p.h. Homogeniser



## For counter current extraction – DE LAVAL SEPARATORS

De Laval Separators operating on counter current extraction principles are used by leading Penicillin and other antibiotic manufacturers—they give flexibility of operation—a clean separation and a very high degree of extraction.





DE LAVAL Easy Clean Stainless Steel Pumps and Plate Heat Exchangers

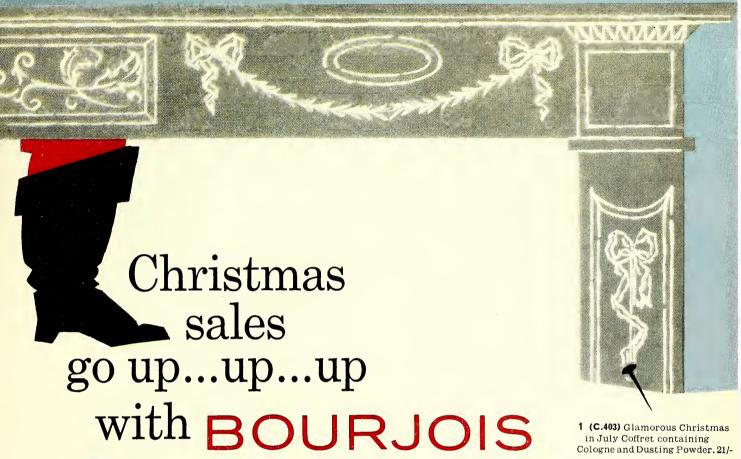
for your pumping and heat exchange problems.

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Smee's D.L. 435





- 1 (C.403) Glamorous Christmas in July Coffret containing Cologne and Dusting Powder. 21/-
- 2 (C.302) Gay, feminine Roman Holiday Coffret containing Talc, Toilet Soap and Bath Cubes. 13/6d.
- 3 (C.200) Delightful 'Young Beauty' Coffret containing Toilet Water. Dusting Powder, Toilet Soap and Bath Cubes. 12/6d.
- 4 (C.135) Plastic Posy Bowl containing 3 Tablets Toilet Soap; for after use as flower bowl. Blue, Green, Pink and Black, 6/3d.
  - 5 (C.167) Ashes of Roses Coffret containing Talc, Toilet Soap and Bath Cubes. Also in Violets and Lavender. 3/8d.
  - 6 (C.211) Cellophane-wrapped Ashes of Roses Toilet Soap and Bath Cubes. Also in Violets and Lavender, 2/6d,
  - 7 (C.202) Evening in Paris Perfume, Toilet Soap and Bath Cubes. 6/6d.
- 8 (C.206) Evening in Paris Coffret containing Perfume, Cologne Stick, Toilet Soap and Bath Cubes. 9/9d.
- 9 (C.208) Evening in Paris Coffret containing Perfume, Cologne, Talc, Bath Soap and Bath Cubes. 15/-

10 (C.209) De luxe Evening in Paris Coffret containing Perfume and Cologne 32/6d.



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Neuroleptic Thymoleptic Tranquillizer



Roche

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Few side effects

Price advantage

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